ORDER NO. BSD0512A28CE
D21

Service Manual

Mini DV NTSC Mini DV PAL

Memory Card Camera-Recorder

AG-HVX200P/AN/E/MC
AG-HVX202EN

DVCPRO HD
DVCPRO 50
DVCPRO

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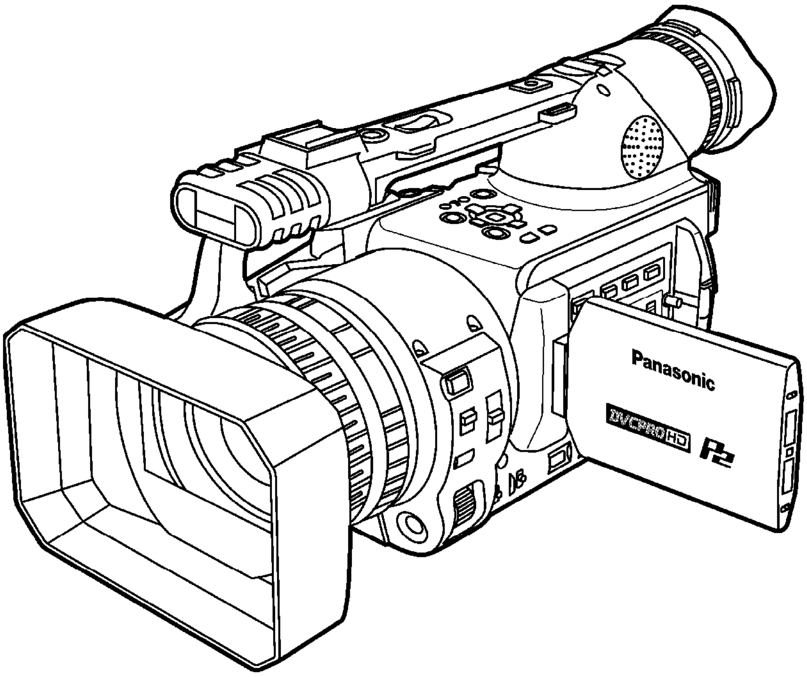

Panasonic®

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

AG-HVX200P

Specifications

[GENERAL]

Supply voltage: DC7.2 V/7.9 V
Power consumption
11.6 W (when the viewfinder is used)
12.0 W (when the LCD monitor is used)
14.0 W (max.)

☐ indicates safety information.

Ambient operating temperature
0 °C to 40 °C (32 °F to 104 °F)

Ambient operating humidity
10% to 85% (no condensation)

Weight
2.5 kg (5.5 lb)
(excluding battery and accessories)

Dimensions (W x H x D)
168.5 mm x 180.0 mm x 390.0 mm
(6-5/8 inches x 7-1/16 inches x 15-3/8 inches)

[Camera]

Pickup devices
CCD image sensor (x3)
(1/3-inch, interline transfer, progressive-capable)

Lens
LEICA DICOMAR Optical image stabilizer lens,
Motorized/Manual selectable 13x zoom,
F1.6 (f = 4.2 mm to 55 mm)
(35 mm equivalent: 32.5 mm to 423 mm)

Color separation optical system
Prism system

ND filter
1/8, 1/64

Gain settings
0/+3/+6/+9/+12/+18 dB (60i/60P mode)
0/+3/+6/+9/+12 dB (30P/30PN/24P/24PA/24PN)

Shutter speed settings
Regular shutter speed
- 60i/60P mode:
  - 1/60 (OFF), 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000 sec.
- 30P/30PN mode:
  - 1/30, 1/50 (OFF), 1/60, 1/120, 1/250, 1/500,1/1000 sec.
- 24P/24PA/24PN mode:
  - 1/24, 1/50 (OFF), 1/60, 1/120, 1/250, 1/500, 1/1000 sec.

Synchronous scan settings
- 60i/60P mode: 1/60.0 sec. to 1/249.8 sec.
- 30P/30PN mode: 1/30.0 sec. to 1/249.8 sec.
- 24P/24PA/24PN mode:
  - 1/24.0 sec. to 1/249.8 sec.
- Shutter opening angle
  - Can be set in 0.5° steps from 10° to 350° (When FILM CAM is set for OPERATION TYPE under SCENE FILE screen)

Slow shutter speed settings
- 60i/60P mode: 1/15, 1/30
- 30P/30PN mode: 1/15

Minimum subject luminance
3 lx (F1.6, gain +12 dB with a shutter speed of 1/24)

Lens hood
Large-sized lens hood with wide angle of view

Filter diameter
82 mm

[VIDEO P2] (DVCPRO HD 1080i 720P)

Sampling frequency
Y: 74.25 MHz, PB/PR: 37.125 MHz

Quantizing
8 bit

Video compression system
DCT + variable-length code

Video compression rate
1/6.7

Video recording bit rate
100 Mbps

Specifications (continued)

[AUDIO P2] (DVCPRO HD 1080i 720P)

Sampling frequency
48 kHz

Quantizing
16 bit/4 CH

Frequency response
20 Hz to 20 kHz

Wow & flutter
Below measurable limits

[MEMORY CARD]

Video recording formats:
DVCPRO HD
  1080i/60i (30P over 60i, 24P over 60i, 24PA over 60i)
  720P/60P (30P over 60P, 24P over 60P)
  720P/30PN
  720P/24PN
DVCPRO50/DVCPRO/DV
  480i/60i (30P over 60i, 24P over 60i, 24PA over 60i)

Audio recording formats:
PCM digital recording
48 kHz 16-bit 4CH (DVCPRO HD/DVCPRO50)
48 kHz 16-bit 2CH/4CH selectable (DVCPRO/DV)

Recording/playback time:
Approx. 4 minutes
  When recorded in DVCPRO HD format using one AJ-P2C004HG card with audio signals recorded on 4 channels.
Approx. 8 minutes
When recorded in DVCPRO HD format using one AJ-P2C008HG card with audio signals recorded on 4 channels.

<Note>

- This recording time represents one shot continuously recorded on a P2 card. The recording time may be shorter, depending on the number of shots recorded.
- The 720P/30PN and 720P/24PN formats are not included in the DVCPRO HD recording format.

[TAPE]

Recording format
DV (Digital video SD format)

Tape format
Mini DV system

Video signals recorded
480i/60i (NTSC)
In progressive mode (30P/ 24P/ 24PA), convert to 480i/60i and record.

Frame rate
60i (480i), 24P, 24PA, 30P

Audio signals recorded
PCM digital recording
16bit: 48kHz/2CH
12bit: 32kHz/4CH

Recording tracks
Digital video/audio:
  Helical tracks
Time code:
  Helical tracks (sub code area)

Tape speeds
SP mode: 18.812 mm/sec.
LP mode: 12.555 mm/sec.

Recording time (when AY-DVM63 is used)
SP mode: 60 minutes
LP mode: 90 minutes

Tapes used
6.35 mm wide metal tapes

FF/REW time
Approx. 140 sec. (when AY-DVM63 is used)

[VIDEO IN/OUT]

Analog component output
720P, 1080i, 480i format monitors supported
Y: 1.0 V [p-p], 75 Ω
PB/PR: 0.7 V [p-p], 75 Ω

Analog composite input/output (automatic input/output switching)
Pin jack x 1, 1.0 V [p-p], 75 Ω

S-VIDEO IN/OUT (automatic input/output switching)
4 pins x 1, Y/C separate signal
Y: 1.0 V [p-p] 75 Ω, C: 0.286 V [p-p], 75 Ω

[AUDIO IN/OUT]

XLR input

XLR (3 pins) x 2 (INPUT 1, INPUT 2),
LINE/MIC selectable, high impedance
LINE: 0 dBu
MIC: -50 dBu/-60 dBu (selectable in menu)

LINE IN/OUT (automatic input/output switching)

Pin jack x 2 (CH1, CH2)
Input: 316 mV, high impedance
Output: 316 mV, 600 Ω

Internal microphone

Stereo microphone

PHONES

3.5-mm stereo mini jack

Internal speaker

28 mm diameter x 1

[OTHER INPUTS/OUTPUTS]

Digital interface

4 pins, digital input/output, compliant with IEEE 1394 standard

USB

Type mini B connector (compliant with USB ver. 2.0)

CAM REMOTE

Mini jack (3.5 mm diameter)
(FOCUS, IRIS)
Super mini jack (2.5 mm diameter)
(ZOOM S/S)

DC INPUT

2P x 1, DC 7.9 V

[Monitor]

LCD monitor

3.5-inch LCD color monitor, 210,000 pixels

Viewfinder

0.44-inch LCD color viewfinder, 235,000 pixels

[AC ADAPTER]

Power Source:
100-240 V AC, 50/60 Hz 24 W
Power Output:
7.9 V DC, 1.9 A (Video Camera)
8.4 V DC, 1.2 A (Charge)

☐ indicates safety information.

Weight

160 g (0.35 lb)

Dimensions (W x H x D)

70 mm x 44.5 mm x 116 mm
(2-3/4 inches x 1-3/4 inches x 4-9/16 inches)

[OPTIONAL UNITS]

XLR microphone

AG-MC100G

Battery

CGP-D28 (2800 mAh)
CGA-D54 (5400 mAh: equivalent to accessory battery)

Cleaning tape

AY-DVMCL

Weight and dimensions when shown are approximately.
Specifications are subject to change without notice.

AG-HVX200E

Specifications

[GENERAL]

Supply voltage: DC7.2 V/7.9 V
Power consumption
  11.6 W (when the viewfinder is used)
  12.0 W (when the LCD monitor is used)
  14.0 W (max.)

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Ambient operating temperature
0 °C to 40 °C

Ambient operating humidity
10% to 85% (no condensation)

Weight
2.5 kg
(excluding battery and accessories)

Dimensions (W x H x D)
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Pickup devices
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(35 mm equivalent: 32.5 mm to 423 mm)

Color separation optical system
Prism system

ND filter
1/8, 1/64

Gain settings
0/+3/+6/+9/+12/+18 dB (50i/50P mode)
0/+3/+6/+9/+12 dB (25P/25PN mode)

Shutter speed settings
- Regular shutter speed
  - 50i/50P mode:
    - 1/50 (OFF), 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000 sec.
  - 25P/25PN mode:
    - 1/25, 1/50 (OFF), 1/60, 1/120, 1/250, 1/500,1/1000 sec.
- Synchronous scan settings
  - 50i/50P mode: 1/50.0 sec. to 1/248.9 sec.
  - 25P/25PN mode: 1/25.0 sec. to 1/248.9 sec.
  - Shutter opening angle
    - Can be set in 0.5° steps from 10° to 350° (When FILM CAM is set for OPERATION TYPE under SCENE FILE screen)
- Slow shutter speed settings
  - 50i/50P mode: 1/12, 1/25
  - 25P/25PN mode: 1/12

Minimum subject luminance
3 lx (F1.6, gain +12 dB with a shutter speed of 1/25)

Lens hood
Large-sized lens hood with wide angle of view

Filter diameter
82 mm

[VIDEO P2] (DVCPRO HD 1080i 720P)

Sampling frequency
Y: 74.25 MHz, PB/PR: 37.125 MHz

Quantizing
8 bit

Video compression system
DCT + variable-length code

Video compression rate
1/6.7

Video recording bit rate
100 Mbps

Specifications (continued)

[AUDIO P2] (DVCPRO HD 1080i 720P)

Sampling frequency

48 kHz

Quantizing

16 bit/4 CH

Frequency response

20 Hz to 20 kHz

Wow & flutter

Below measurable limits

[MEMORY CARD]

Video recording formats:

DVCPRO HD
- 1080i/50i (25P over 50i)
- 720P/50P (25P over 50P)
- 720P/25PN (Native recording)

DVCPRO50/DVCPRO/DV
- 576i/50i (25P over 50i)

Audio recording formats:

PCM digital recording
48 kHz 16-bit 4CH (DVCPRO HD/DVCPRO50)
48 kHz 16-bit 2CH/4CH selectable (DVCPRO/DV)

Recording/playback time:

Approx. 4 minutes
When recorded in DVCPRO HD format using one AJ-P2C004HG card with audio signals recorded on 4 channels.

Approx. 8 minutes
When recorded in DVCPRO HD format using one AJ-P2C008HG card with audio signals recorded on 4 channels.

<Note>

- This recording time represents one shot continuously recorded on a P2 card. The recording time may be shorter, depending on the number of shots recorded.
- The 720P/25PN format is not included in the DVCPRO HD recording format.

[TAPE]

Recording format

DV (Digital video SD format)

Tape format

Mini DV system

Video signals recorded

576i/50i (PAL)
In progressive mode (25P), convert to 576i/50i and record.

Frame rate

50i (576i), 25P

Audio signals recorded

PCM digital recording
16bit: 48kHz/2CH
12bit: 32kHz/4CH

Recording tracks

Digital video/audio:
Helical tracks
Time code:
Helical tracks (sub code area)

Tape speeds

SP mode: 18.831 mm/sec.
LP mode: 12.568 mm/sec.

Recording time (when AY-DVM63 is used)

SP mode: 60 minutes
LP mode: 90 minutes

Tapes used

6.35 mm wide metal tapes

FF/REW time

Approx. 140 sec. (when AY-DVM63 is used)

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720P, 1080i, 576i format monitors supported
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P_B/P_R: 0.7 V [p-p], 75 Ω

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LINE IN/OUT (automatic input/output switching)

Pin jack x 2 (CH1, CH2)
Input: 316 mV, high impedance
Output: 316 mV, 600 Ω

Internal microphone

Stereo microphone

Headphone jack

3.5-mm stereo mini jack x 1

Internal speaker

28 mm diameter x 1

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Digital interface

4 pins, digital input/output, compliant with IEEE 1394 standard

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Type mini B connector (compliant with USB ver. 2.0)

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Power Output:
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[OPTIONAL UNITS]

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Battery

CGP-D28 (2800 mAh)
CGA-D54 (5400 mAh: equivalent to accessory battery)

Cleaning tape

AY-DVMCL

Weight and dimensions are approximate.
Specifications are subject to change without notice.

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts, which have been over-heated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. The resistance value must be more than 5MΩ.

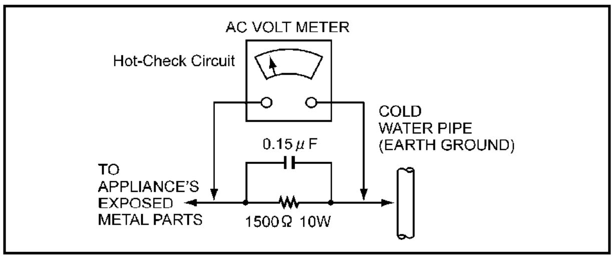


Figure1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet.
   Do not use an isolation transformer for this check.
2. Connect a 1.5KΩ, 10W resistor, in parallel with a 0.15µ F capacitor, between each exposed metallic part on the set an a good earth ground such as a water pipe, as shown in Figure1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.15 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 0.1 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ABOUT LEAD FREE SOLDER (PbF)

Distinction of Pbf PCB:

PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

Caution:

1. Pb free solder has a higher melting point than standard solder; Typically the melting point is 50–70°F (30-40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700±20°F (370±10°C).
2. Pb free solder will tend to splash when heated too high (about 1100°F/600°C).

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ED) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
   Alternatively, obtain and wear a commercially available discharging wrist trap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it.
   (most replacement ES devices are package with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

1. The potential source of X-radiation in EVF sets is the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.

Note: It is important to use an accurate periodically calibrated high voltage meter.

3. Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, ±0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER TO SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

- TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.
- TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS. USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:

THE AC RECEPTACLE (MAINS SOCKET OUTLET) SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.
TO COMPLETELY DISCONNECT THIS EQUIPMENT FROM THE AC MAINS, DISCONNECT THE POWER CORD PLUG FROM THE AC RECEPTACLE.

CAUTION:

Danger of explosion or fire if battery is mistreated.

For Battery Pack

- Replace only with same or specified type.
- Do not disassemble or dispose of in fire.
- Do not store in temperatures over 60°C (140°F).
- Use specified charger.

For Battery of Remote Controller

- Replace battery with part No. CR2025 only.
- Do not recharge the battery.
- Do not disassemble or dispose of in fire.
- Do not store in temperatures over 60°C (140°F).

Camera-Recorder
The rating plate is on the underside of the viewfinder.

AC Adapter
The rating plate is on the underside of the AC Adapter.
Disconnect the AC mains plug from the AC mains socket when not in use.

CAUTION:

In order to maintain adequate ventilation, do not install or place this unit in a bookcase, built-in cabinet or any other confined space. To prevent risk of electric shock or fire hazard due to overheating, ensure that curtains and any other materials do not obstruct the ventilation.

▭ indicates safety information.

IMPORTANT

"Unauthorized recording of copyrighted television programs, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

FCC NOTICE (USA)

Declaration of Conformity

Model Number: AG-HVX200P
Trade Name: PANASONIC
Responsible Party: Panasonic Corporation of North America One Panasonic Way, Secaucus, NJ 07094
Support contact: Panasonic Broadcast & Television Systems Company 1-800-524-1448

This device complies with Part 15 of FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
To assure continued compliance, follow the attached installation instructions and do not make any unauthorized modifications.

CAUTION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The user may find the booklet “Something About Interference”
available from FCC local regional offices helpful.

FCC Warning:

To assure continued FCC emission limit compliance, the user must use only shielded interface cables when connecting to host computer or peripheral devices. Also, any unauthorized changes or modifications to this equipment could void the user’s authority to operate this device.

NOTIFICATION (Canada)

This class B digital apparatus complies with Canadian ICES-003.
Cet appareil numéique de la classe B est conforme à la norme NMB-003 du Canada.

☐ indicates safety information.

A lithium ion/polymer battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

ATTENTION
RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIR

ATTENTION:
AFIN DE PRÉVENIR LE RIQUE DE CHOCS ÉLECTRIQUES, NE DÉVISSEZ PAS LE COUVERCLE. AUCUNE PIÉCE N'EST RÉPARABLE PAR L'UTILISATEUR À L'INTÉRIER DU COFFRET. TOUTE RÉPARATION DEVRAIT ÊTRE CONFIÉE À UN PERSONNEL QUALIFIÉ.

Le symbole de l'éclair dans un triangle équilatéral indique la présence d'une tension suffisamment élevée pour engendrer un risque de chocs électriques.

Le point d'exclamation dans un triangle équilatéral indique que le manuel d'utilisation inclus avec l'appareil contient d'importantes recommandations quant au fonctionnement et à l'entretien de ce dernier.

AVERTISSEMENT:

- POUR RÉDUIRE LES RISQUES D'INCENDIE OU DE CHOC ÉLECTRIQUE, ÉVITEZ D'EXPOSER CET APPAREIL À LA PLUIE OU À L'HUMIDITÉ.
- POUR RÉDUIRE TOUT RISQUE DE FEU OU DE CHOC ÉLECTRIQUE, ÉLOIGNER L'APPAREIL DES LIQUIDES - UTILISER ET RANGER UNIQUEMENT DANS UN ENDROIT NE RISQUANT PAS DE RECEVOIR DES GOUTTES OU D'ÊTRE ASPERGÉ DE LIQUIDES, ET NE PAS METTRE DE RÉCIPIENT RENFERMANT DES LIQUIDES SUR LE DESSUS DE L'APPAREIL.

ATTENTION:

POUR ÉVITER TOUT RISQUE D'INCENDIE, DE CHOCS ÉLECTRIQUES OU D'INTERFÉRENCES, N'UTILISER QUE LES ACCESSOIRES RECOMMANDÉS.

ATTENTION:

LA PRISE DE COURANT (PRISE SECTEUR) DOIT ÊTRE INSTALLÉE À PROXIMITÉ DE L'APPAREIL ET FACILEMENT ACCESSIBLE. POUR DÉCONNECTER COMPLÈTEMENT CET APPAREIL DU SECTEUR, DÉBRANCHEZ LA FICHE DU CORDON D'ALIMENTATION DE LA PRISE DE COURANT.

PRÉCAUTION:

Il y a risque d'explosion si la batterie n'est pas manipulée correctement.

Pour le bloc-piles

- Remplacer exclusivement par une batterie du même type ou du type spécifié.
- Ne pas démonter ni jeter au feu.
- Ne pas ranger à des températures supérieures à 60°C (140°F).
- Utilisez le chargeur spécifié.

Pour la pile de la télécommande

- Remplacer la pile exclusivement par une pile No. CR2025.
- Ne pas recharger la pile.
- Ne pas démonter ni jeter au feu.
- Ne pas ranger à des températures supérieures à 60°C (140°F).

Camescope

La plaque signalétique se trouve sur le fond du viseur.

Adaptateur secteur

La plaque signalétique se trouve sur le fond de l'adaptateur secteur.
Débrancher la fiche secteur de la prise lorsqu'on ne se sert pas de l'appareil.

ATTENTION:

Pour maintenir une bonne ventilation, ne pas installer ni placer l'appareil dans une étagère, un meuble encastré ni aucun endroit confiné. Pour éviter tout risque de choc électrique ou de feu dû à une surchauffe, vérifier qu'aucun rideau ni aucun autre matériau ne fait obstacle à la ventilation.

NOTIFICATION (Canada)

This class B digital apparatus complies with Canadian ICES-003.
Cet appareil numéique de la classe B est conforme à la norme NMB-003 du Canada.

▭ Informations concernant la sécurité.

Mise en garde:

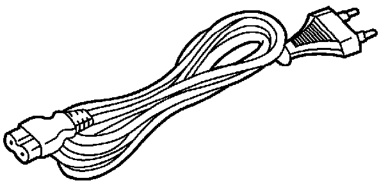
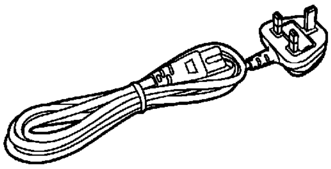
“L’enregistrement non autorisé d’émissions de télévision, films, rubans magnétoscopiques ou autres, protégéspar des droits d’auteur, peut enfreindre les droits de propriété et aller à l’encontre des dispositions de la loi sur lesdroits d’auteur”.

L’appareil que vous vous êtes procuré est alimenté par une batterie au lithium-ion/ lithium-polymère.
Pour des renseignements sur le recyclage de la batterie, veuillez composer le 1-800-8-BATTERY.

Caution for AC Mains Lead

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.
This product is equipped with 2 types of AC mains cable. One is for continental Europe, etc. and the other one is only for U.K.

Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

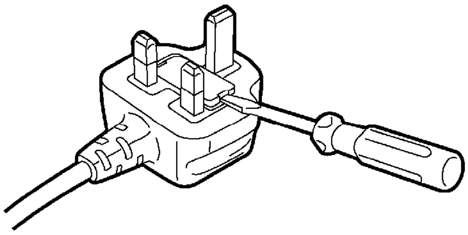
FOR CONTINENTAL EUROPE, ETC. **Not to be used in the U.K.**	**FOR U.K. ONLY**
	

FOR U.K. ONLY
This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5 amp fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ◈ or the BSI mark ♡ on the body of the fuse.

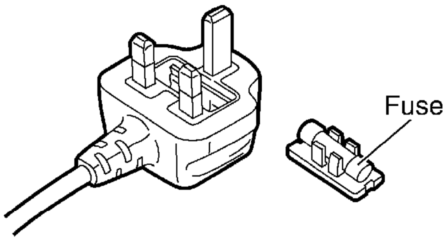
If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.

How to replace the fuse

1. **Open the fuse compartment with a screwdriver.**



2. **Replace the fuse**



▭ indicates safety information.

■ DO NOT REMOVE PANEL COVERS BY UNSCREWING THEM.

To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING:

- TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.
- TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS. USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:

In order to maintain adequate ventilation, do not install or place this unit in a bookcase, built-in cabinet or any other confined space. To prevent risk of electric shock or fire hazard due to overheating, ensure that curtains and any other materials do not obstruct the ventilation.

CAUTION:

Danger of explosion or fire if battery is mistreated.

For Battery Pack

- Replace only with same or specified type.
- Do not disassemble or dispose of in fire.
- Do not store in temperatures over 60°C (140°F).
- Use specified charger.

For Battery of Remote Controller

- Replace battery with part No. CR2025 only.
- Do not recharge the battery.
- Do not disassemble or dispose of in fire.
- Do not store in temperatures over 60°C (140°F).

Camera-Recorder

The rating plate is on the underside of the viewfinder.

AC Adapter

The rating plate is on the underside of the AC Adapter.

Disconnect the AC mains plug from the AC mains socket when not in use.

CAUTION:

THE AC RECEPTACLE (MAINS SOCKET OUTLET) SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.

TO COMPLETELY DISCONNECT THIS EQUIPMENT FROM THE AC MAINS, DISCONNECT THE POWER CORD PLUG FROM THE AC RECEPTACLE.

▭ indicates safety information.

Operating precaution

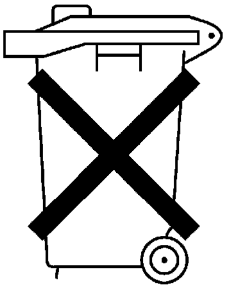
Operation near any appliance which generates strong magnetic fields may give rise to noise in the video and audio signals. If this should be the case, deal with the situation by, for instance, moving the source of the magnetic fields away from the unit before operation.

IMPORTANT

“Unauthorized recording of copyrighted television programs, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws.”

Attention/Attentie

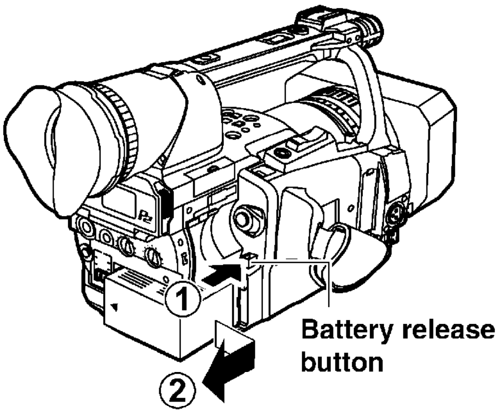
- Batteries are used for the main power source, memory back-up in the product and remote controller.
  At the end of their useful life, you should not throw them away.
  Instead, hand them in as small chemical waste.
- Voor de primaire voeding en het reservegeheugen van het apparaat, alsmede voor de afstandsbediening, wordt gebruik gemaakt van een batterij.
  Wanneer de batterij uitgeput is, mag u deze niet gewoon weggooien, maar dient u ze als klein chemisch afval weg te doen.



To remove the battery/ Verwijderen van de batterij

Main Power Battery
Batterij Voor Primaire Voeding

Remove the battery while pressing the battery release button.



Panasonic®

SECTION 1

SERVICE INFORMATION

MODEL: AG-HVX200P/AN/E/MC/HVX202EN

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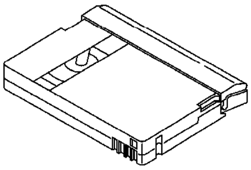
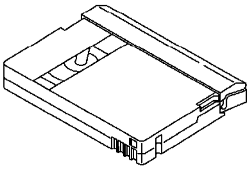
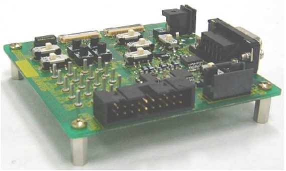
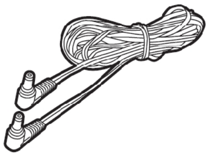
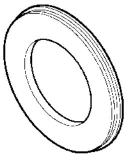
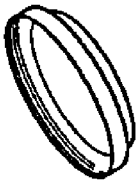
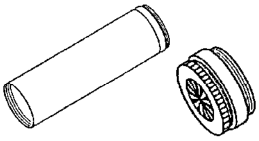
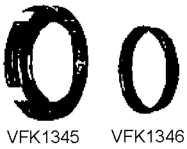
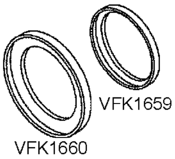
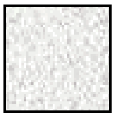
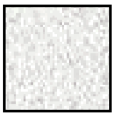
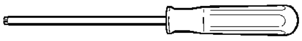
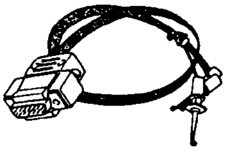
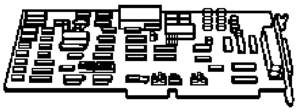
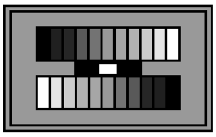
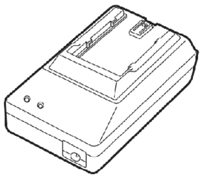
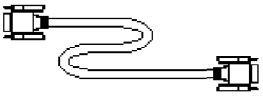
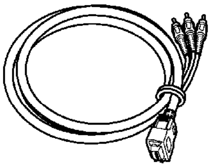
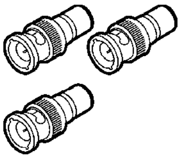
1. Servicing fixtures and tools

The following servicing tools are required for mechanical and electrical servicing and alignment.
The items marked **"NEW"** in the following list are necessary for the AG-HVX200/202.
Please refer to **"Y"** in column of table below, these tools were also use for servicing the AG-DVX100B, DVX102B and DVC180B.

1-1. Summary Table of Servicing Fixtures and Tools

No	Parts No.	NAME	DVX100B	DVX102B/ DVC180B	REMARK
1	VFM3010EDS	DV Alignment Tape (Color bar)	Y	N	For NTSC
2	VFM3110EDS	DV Alignment Tape (Color bar)	Y	Y	For PAL
3	VFM3000LS	DV Alignment Tape (Linearity)	Y	Y	
4	*VVS0030	PC EVR Software	N	N	**NEW** Download from the Global WEB site.
5	*VVS0032	PC EVR Software	N	N	**NEW For VTR adjustment** Download from the Global WEB site.
6	*VFK1481N	LISTA Software	Y	Y	Download from the Global WEB site.
7	VFK1988	Measuring Board	N	N	**NEW** EVR/LISTA
8	VFK1989	Extension Cable	N	N	**NEW**
9	K2GJ2DC00002	DC Cable	Y	Y	It is equal to VJA1128
10	VFK1987	82mm Attachment Ring	N	N	**NEW**
11	VFK1164TAR43	43mm Attachment Ring	Y	Y	
12	VFK1164TCM01	Collimator Set (Infinity Lens)	Y	Y	
13	VFK1345	CC Filter Holder	Y	Y	
14	VFK1346	Step Down Ring (62mm-52mm)	Y	Y	
15	VFK1659	Step-Up Ring (43mm-49mm)	Y	Y	
16	VFK1660	Step-Up Ring (49mm-62mm)	Y	Y	
17	VFK1341	CC Filter (LB40)	Y	N	In AG-DVX100BE, this filter is not used.
18	VFK1347	CC Filter (LB120)	Y	Y	
19	VFK1884	CC Filter (LBA2)	Y	Y	
20	VFK1888	CC Filter (LBB6)	Y	Y	
21	VFK1885	CC Filter (LBB2)	Y	N	In AG-DVX100BE, this filter is not used.
22	VFK1899	Post Driver	Y	Y	**NOTE**
23	VFK1186	LISTA Cable	Y	Y	
24	VFK1300	A/D Converter Board	Y	Y	ISA PC Board.
25	----------	Grayscale Chart	Y	Y	
26	----------	AC Adapter	Y	Y	2 pieces Required
27	----------	RS232C cross cable (9P)	Y	Y	
28	----------	White chart	Y	Y	
29	K1EY06YY0001	Component cable	N	N	The marketed thing can be used.
30	K2RYYYYY0001	PIN-BNC Conversion cable	N	N	(3 pcs) The marketed thing can be used.

NOTE:
This Post Driver use for servicing the "A" mechanism of consumer model.

1 **VFM3010EDS (NTSC)** **2** **VFM3110EDS (PAL)** DV Alignment Tape (Color bar) 	**3** **VFM3000LS** DV Alignment Tape (Linearity) 	**4** **VVS0030** **5** **VVS0032** PC EVR Software DOWN LOAD	**6** **VFK1481N** LISTA Software DOWN LOAD
7 **VFK1988** Measuring Board 	**8** **VFK1989** Extension Cable 	**9** **K2GJ2DC00002** DC Cable 	**10** **VFK1987** 82 mm Attachment Ring 
11 **VFK1164TAR43** 43 mm Attachment Ring 	**12** **VFK1164TCM01** Collimator Set (Infinity Lens) 	**13** **VFK1345** CC Filter Holder **14** **VFK1346** Step Down Ring (62mm - 52mm) 	**15** **VFK1659** Step-up Ring (43mm - 49mm) **16** **VFK1660** Step-up Ring (49mm - 62mm) 
17 **VFK1341** (LB40) **18** **VFK1347** (LB120) CC Filter 	**19** **VFK1884** (LBA2) **20** **VFK1888** (LBB6) **21** **VFK1885** (LBB2) CC Filter 	**22** **VFK1899** Post Driver 	**23** **VFK1186** LISTA Cable 
24 **VFK1300** A/D Converter Board 	**25** Grayscale Chart 	**26** AC Adapter 	**27** RS-232C Cross Cable (9P) 
28 White Chart 	**29** **K1EY06YY0001** Component Cable 	**30** **K2RYYYYY0001** PIN-BNC Conversion Cable 	

2. Maintenance

Maintenance is done by periodically performing suitable maintenance servicing in order to maintain the best condition, so that the user can use the equipment safely. Video equipment with mounted mechanisms have parts which will wear, and their wear and deterioration cause troubles. Dust and dirt also can impair stable operation. For this reason it is important not to just perform repair at the time of trouble, but also to perform suitable maintenance at regular intervals.

The maintenance schedule requires replacement of mechanism unit, which contains a cylinder unit and so on.

2-1. Maintenance Schedule

No.	Part Name	Part No.	Cleaning	Replacement	Remark
---	Tape Transport Part	------	100 hours	------	*1
1	Mechanism Chassis Unit	VXY1903Z1	------	Every 2000 hours	*2
2	Zoom Motor Unit	L6DABBKD0001	------	Every 4000 hours	*2

Note:

Hours of use are based on the head rotation hours. (Head rotation hours can be confirm on item HOUR METER in OTHER FUNCTION menu.)

Hours of use are recommendation. It may depend on temperature, humidity, quality of tape or dust condition.

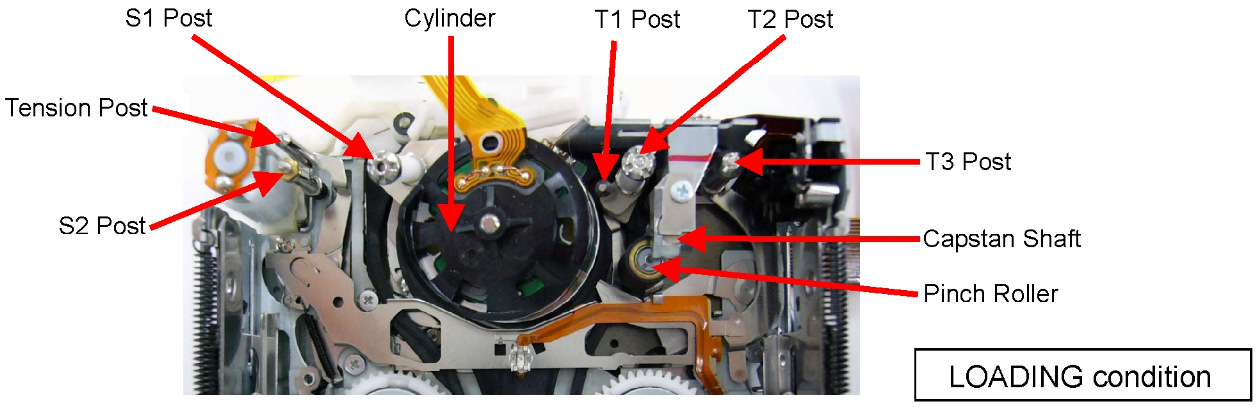
Hours of use are listed as the reference of maintenance. They do not mean guarantee hours.

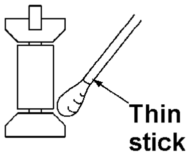
*1. Tape Transport part is cleaned by cleaning liquid.

*2. Please refer to the most recent execution outline, as the maintenance specifications and the part numbers may change.

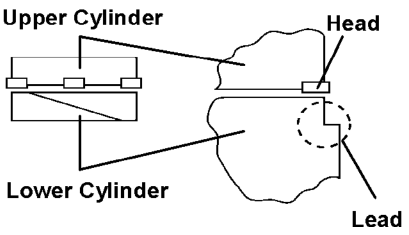
2-2. Cleaning of Tape Transport Part

Please clean the below indicated tape transport parts with cleaning liquid when needed.
(Tension Post, S1 Post, Cylinder & Heads, T1 Post, T2 Post, T3 Post, Capstan Shaft and Pinch Roller)





When cleaning the post, wrap a cloth on a pick. Wipe each post with a cloth dipped in cleaning liquid. And wipe it again with dry cloth.



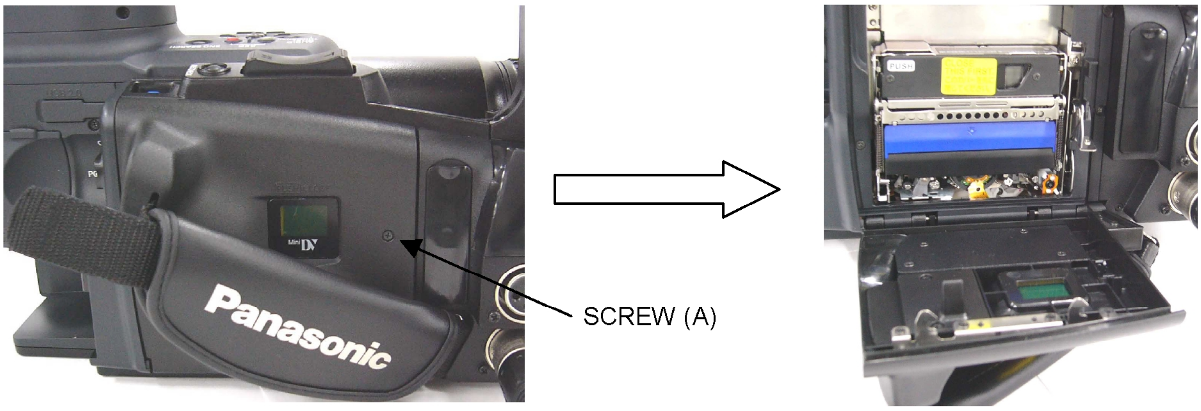
Do not forget cleaning the upper Cylinder, Head, tape transport part of Lower Cylinder and Lead, when cleaning the Cylinder.

3. Manual tape eject (Emergency eject)

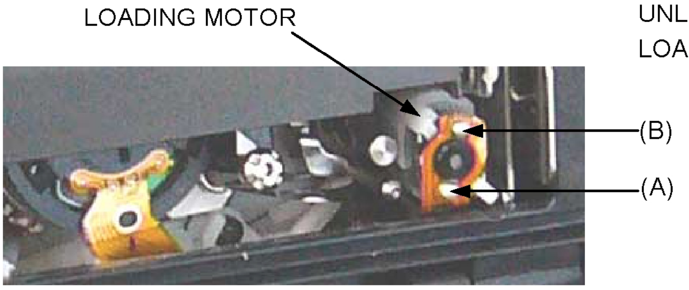
When the tape cannot be ejected by normal operation because of trouble in the electrical system or mechanical system, the tape can be removed from the unit manually by using the following method.

NOTE: By below indicated method, the unit will not take up tape slack. Be careful when removing the tape from Cassette Holder.

1. Unscrew the screw (A) and open the cassette cover as shown in figure.



2. Supply 4.5 Volts using 3 AA batteries in series to unload the posts using the motor.



UNLOADING .... A: +4.5V B: GND
LOADING.................. A: GND B: +4.5V

3. Stop supplying the power when the tape is ejected and remove the tape from Cassette Holder.

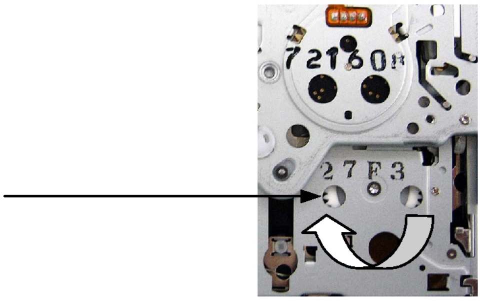
<How to rolls up tape>

Be sure to take up the tape slack so that tape does not become damaged.

1. Remove the Mechanism Unit.
2. Supply 4.5 Volts to unload the posts using the motor.
3. Stop supplying the power at unloading complete position.

NOTE: If power is supplied too long, then the Cassette tape will be ejected prematurely.

4. Turn the Gear of Supply Reel as shown in figure, and this will take up the slack in the tape.
5. Supply 4.5 Volts again to eject the tape using the motor and remove the tape from Cassette Holder.

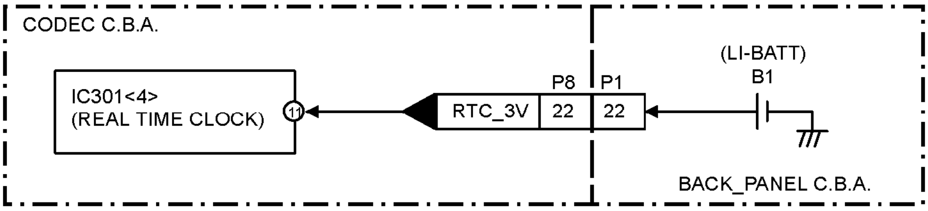


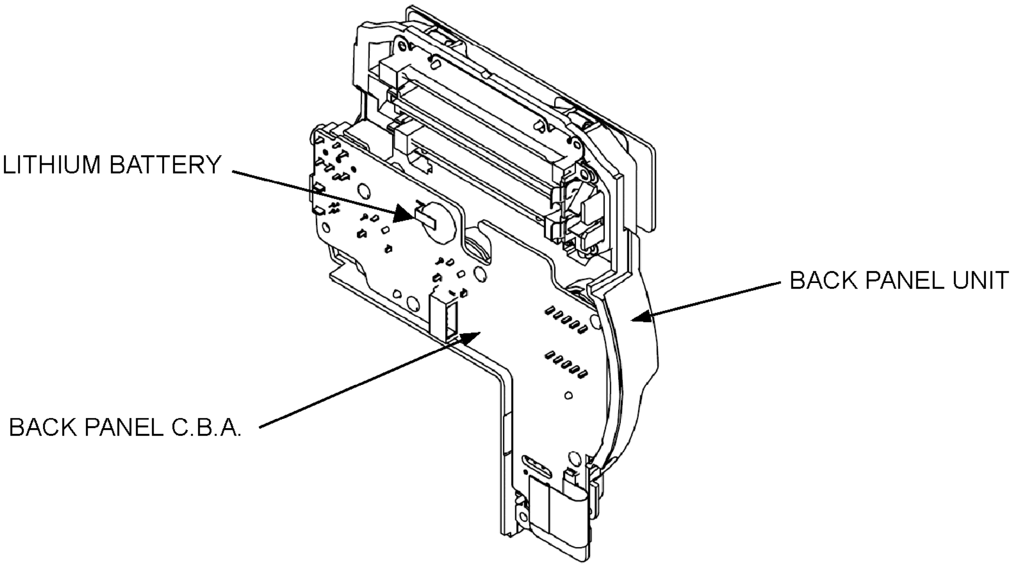
(Bottom side of Mechanism)

4. Lithium battery

4-1. Replacement Procedure

1. Remove the BACK PANEL unit.
2. There is a Lithium battery on the BACK PANEL C.B.A.
3. Unsolder the Lithium battery and then replace with the new one.


CODEC C.B.A.
IC301<4>
(REAL TIME CLOCK)
11
RTC_3V
P8
22
P1
22
(LI-BATT)
B1
BACK_PANEL C.B.A.


LITHIUM BATTERY
BACK PANEL UNIT
BACK PANEL C.B.A.

NOTE:
The lithium battery is a critical component.
It must never be subjected to excessive heat of discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED.
REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE.

5. Camera remote

The operation of zoom operation and record start/stop can be remotely controlled by connecting a remote controller with **ZOOM S/S** remote jack.
The operation of focus and iris operation can be remotely controlled by connecting a remote controller with **FOCUS/IRIS** remote jack.

NOTE: CAMERA remote control is only effective in the CAMERA mode.

5-1. ZOOM S/S REMOTE

Please refer to below indicated specification, When external remote is checked.

Terminal (refer to figure A)	Contents
A	Record start/stop input
B	Zooming control input
C	GND

Equivalent circuit of ZOOM S/S REMOTE jack

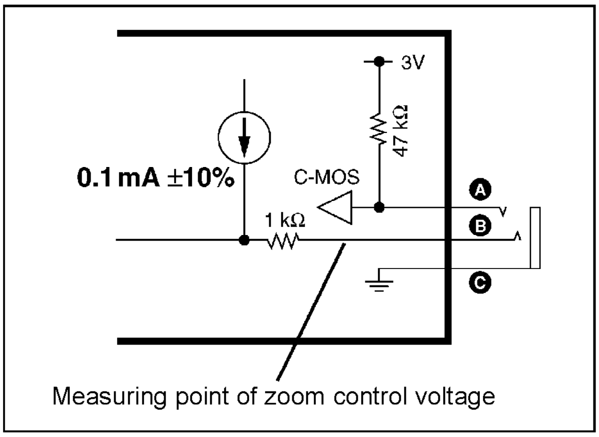


Figure A

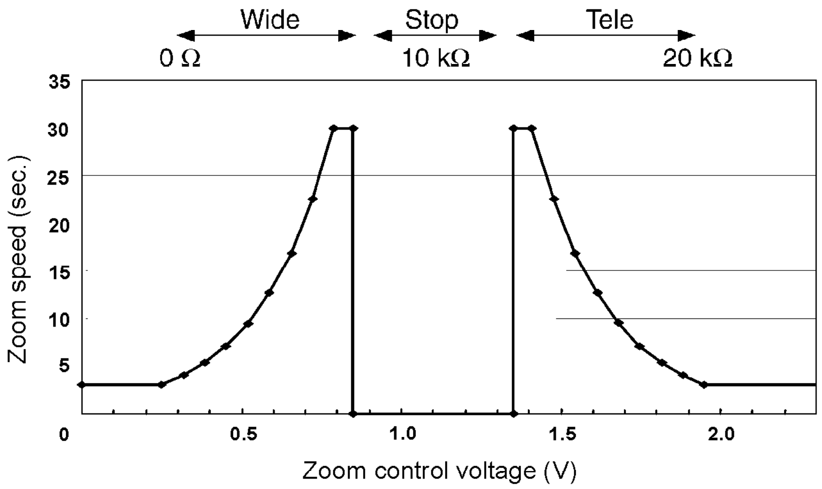
5-1-1. Record start / stop input

Every time A terminal connects with the GND, it repeats recording and a recording stop.

5-1-2. Zooming control input

With the voltage to input to the B terminal, the zoom speed changes. As for the relation between the zoom control voltage and the zoom speed, it is as shown in the following.

Relation between the zoom control voltage and zoom speed



NOTE:
The control voltage and the zoom speed, which are shown below are a reference value. Because there is a little difference, see as the reference data.

Figure B

5-2. FOCUS/IRIS REMOTE

Please refer to below indicated specification, When external remote is checked.

Terminal (refer to figure A)	Contents
A	GND
B	FOCUS control input
C	IRIS control input
D	IRIS(AUTO/MANU) switch input

Equivalent circuit of FOCUS/IRIS REMOTE jack

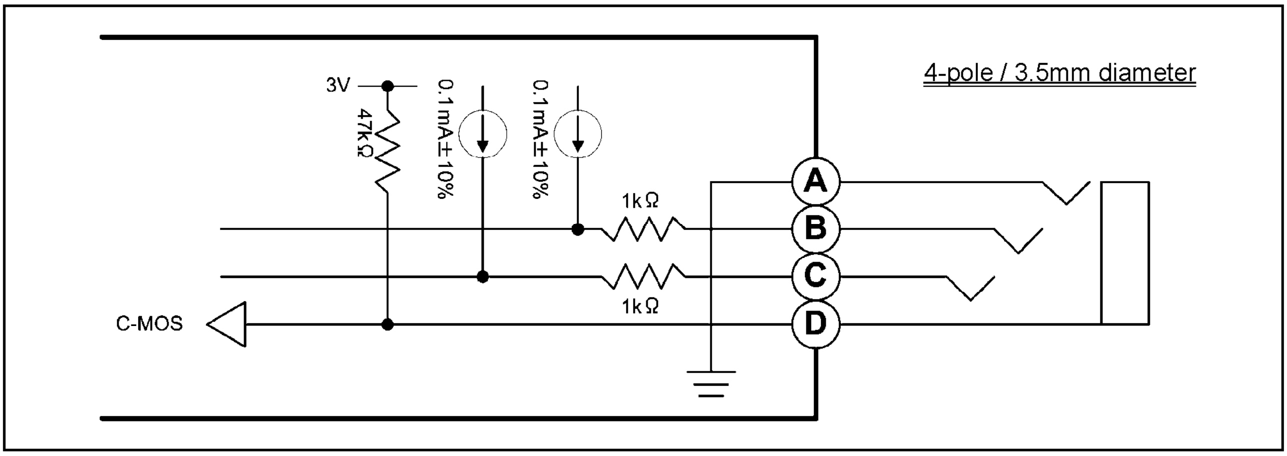
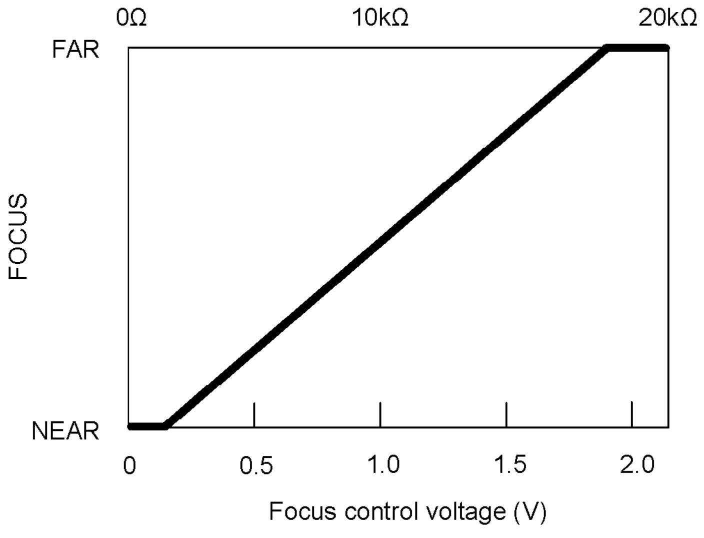


Figure C

5-2-1. Focus control input

With the voltage to input to the B terminal, the focus is changes. As for the relation between the focus control voltage and the focus, it is as shown in the following.

Relation between the focus control voltage and focus



NOTE:
The control voltage and the focus, which are shown below are a reference value. Because there is a little difference, see as the reference data.

Figure D

When terminal B is open, the focus remote control becomes invalid.

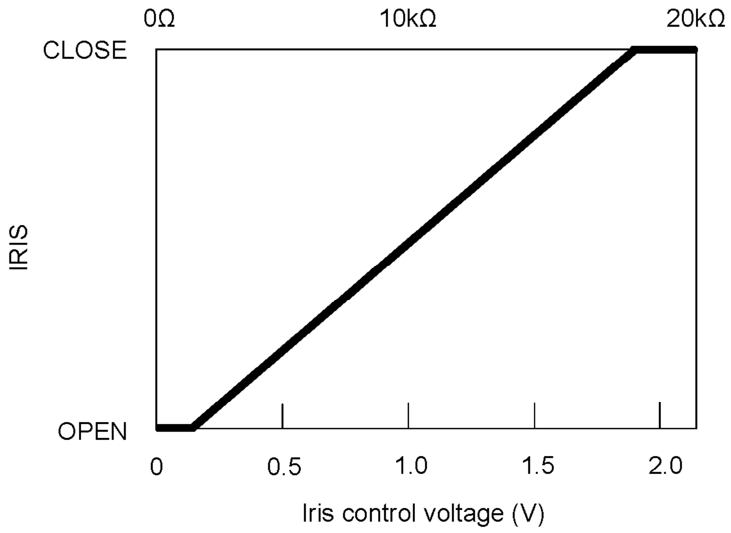
5-2-2. IRIS control input

When terminal D is open, the VCR becomes AUTO-IRIS mode. When terminal D connects with the GND, the VCR becomes MANUAL-IRIS mode.

With the voltage to input to the C terminal, the iris is changes. As for the relation between the iris control voltage and the iris, it is as shown in the following.

Even if AUTO-IRIS is used, the iris can be corrected according to the input voltage.

Relation between the iris control voltage and iris

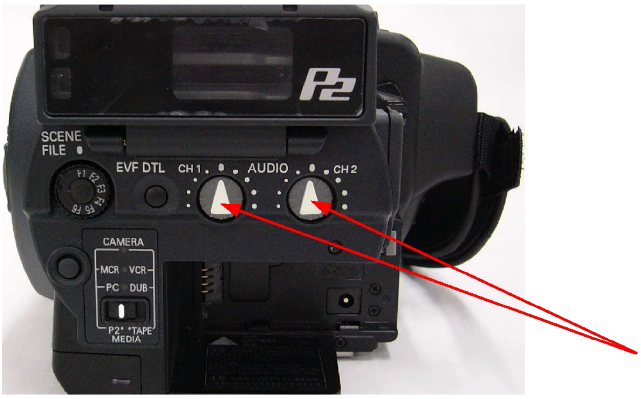


NOTE:
The control voltage and the iris, which are shown below are a reference value. Because there is a little difference, see as the reference data.

Figure E

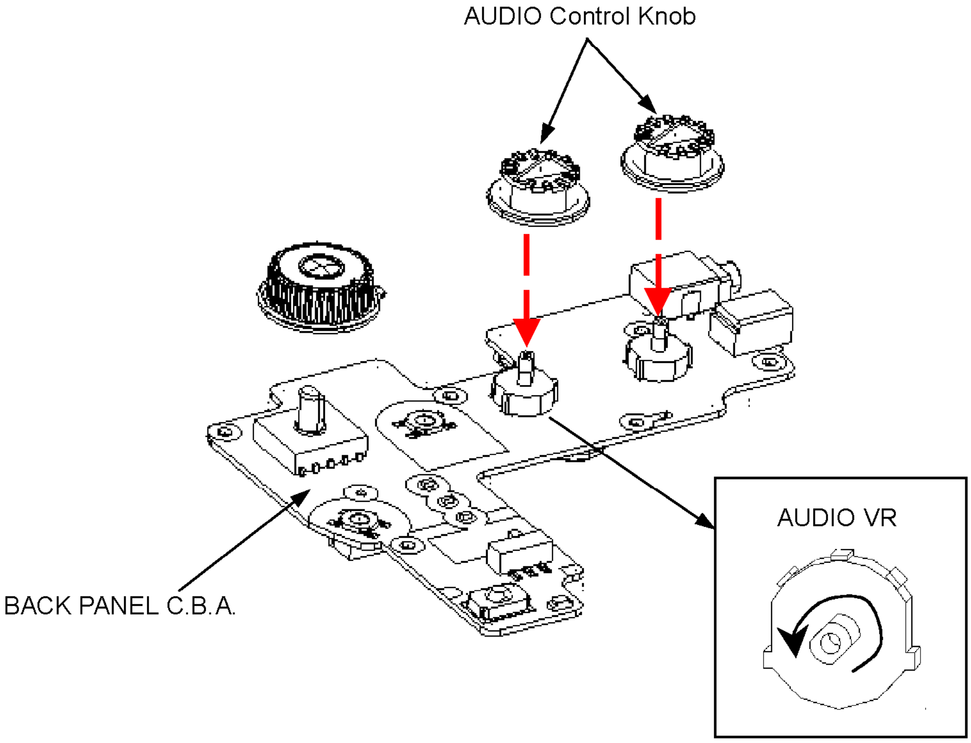
6. Caution when installing AUDIO Control Knob

The AUDIO VR is weak against stress. So when the AUDIO Control Knob is removed from the AUDIO VR, it is very possible that AUDIO VR is broken. Please replace the AUDIO VR by a new one, when you have removed the AUDIO Control Knob from the AUDIO VR. When installing the AUDIO Control Knob, set its direction as follows.


P2
SCENE FILE
EVF DTL
CH1
AUDIO
CH2
CAMERA
MCR
VCR
PC
DUB
P2
TAPE
MEDIA
AUDIO Control Knob

(Installation of AUDIO Control Knob)

1. Set the AUDIO VR to fully counter-clockwise as shown in figure A.
2. Install the AUDIO Control Knob to AUDIO VR as follows.


AUDIO Control Knob
BACK PANEL C.B.A.
AUDIO VR

(Figure A)

7. Operation after major part exchanged

7-1. Operation List

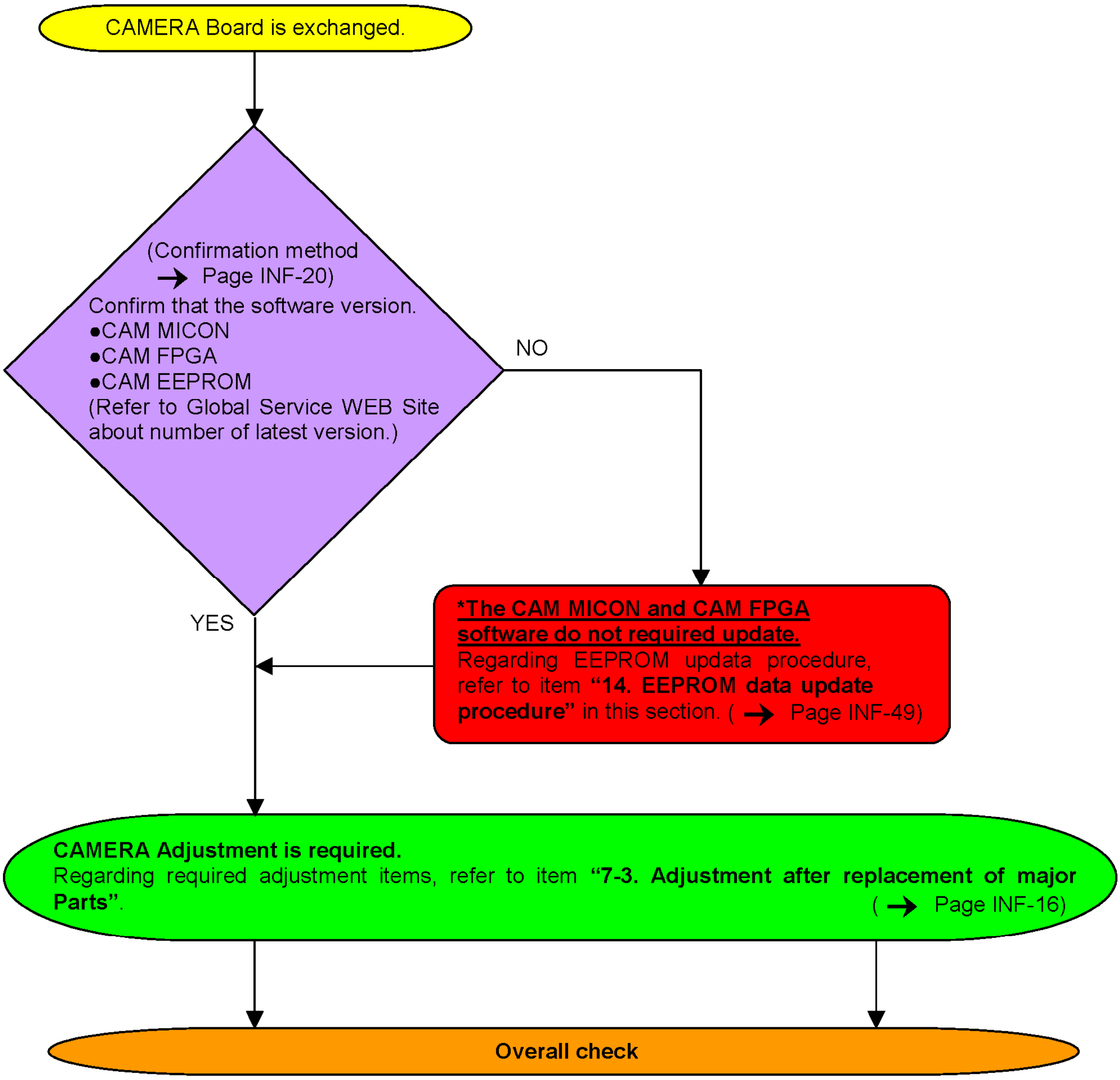
These are items that must be done when the major part has been changed.

X: Operation required

	Board or Ass’y	Adj.	Version conf.	EEPROM	Remark
	CAMERA	X	X	X	
	CODEC		X	X	
	VTR	X	X	X	
	POWER				Not required
	TOP OP				Not required
	P2 CARD				Not required
	SD CARD				Not required
	SIDE JACK2				Not required
	TOP CON				Not required
	BOTTOM CON				Not required
	GYRO				Not required
CAMERA LENS Ass’y	CAMERA LENS Ass’y	X			
	LENS Ass’y	X			
	PRISM Ass’y	X			
	ZOOM MOTOR Ass’y	X			
LCD Ass’y	LCD Ass’y				Not required
	LCD LEV				Not required
ZOOM SW Ass’y	ZOOM SW Ass’y	X			
	ZOOM SW	X			
FRONT JACK Ass’y	SIDE JACK1	X			Confirmation only
	EXT MIC2				Not required
BATTERY CASE Ass’y	POWER SW				Not required
	BATTEY				Not required
	DC IN				Not required
EVF Ass’y	EVF Ass’y				Not required
	EVF CONNECT				Not required
HANDLE Ass’y	HANDLE Ass’y				Not required
	HANDLE PB				Not required
	REMOCON F				Not required
SIDE CASE R Ass’y	R SIDE				Not required
	CAM OP1				Not required
	CAM OP2				Not required
	CAM OP3				Not required
MECHANISM Ass’y	MECHANISM Ass’y	X			
	MECHA I/F	X			

7-2. Operation flow chart after board exchanged

7-2-1. CAMERA Board



CAMERA Board is exchanged.

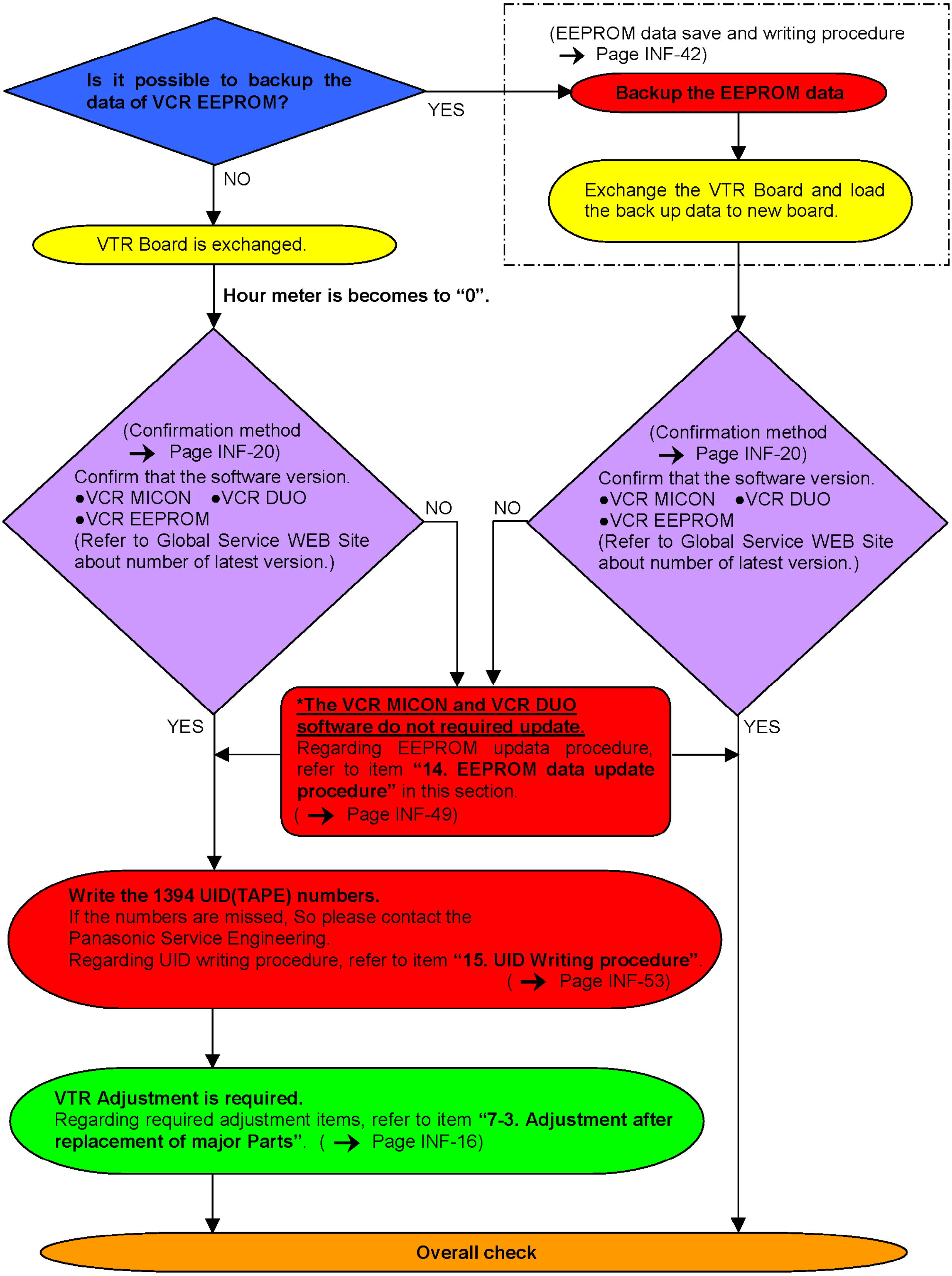
(Confirmation method
→ Page INF-20)
Confirm that the software version.
●CAM MICON
●CAM FPGA
●CAM EEPROM
(Refer to Global Service WEB Site about number of latest version.)

***The CAM MICON and CAM FPGA software do not required update.**
Regarding EEPROM updata procedure, refer to item **"14. EEPROM data update procedure"** in this section. (→ Page INF-49)

CAMERA Adjustment is required.
Regarding required adjustment items, refer to item **"7-3. Adjustment after replacement of major Parts"**. (→ Page INF-16)

Overall check

7-2-2. VTR Board



Is it possible to backup the data of VCR EEPROM?

(EEPROM data save and writing procedure → Page INF-42)

Backup the EEPROM data

Exchange the VTR Board and load the back up data to new board.

VTR Board is exchanged.

Hour meter is becomes to "0".

(Confirmation method → Page INF-20)
Confirm that the software version.
- VCR MICON
- VCR DUO
- VCR EEPROM

(Refer to Global Service WEB Site about number of latest version.)

(Confirmation method → Page INF-20)
Confirm that the software version.
- VCR MICON
- VCR DUO
- VCR EEPROM

(Refer to Global Service WEB Site about number of latest version.)

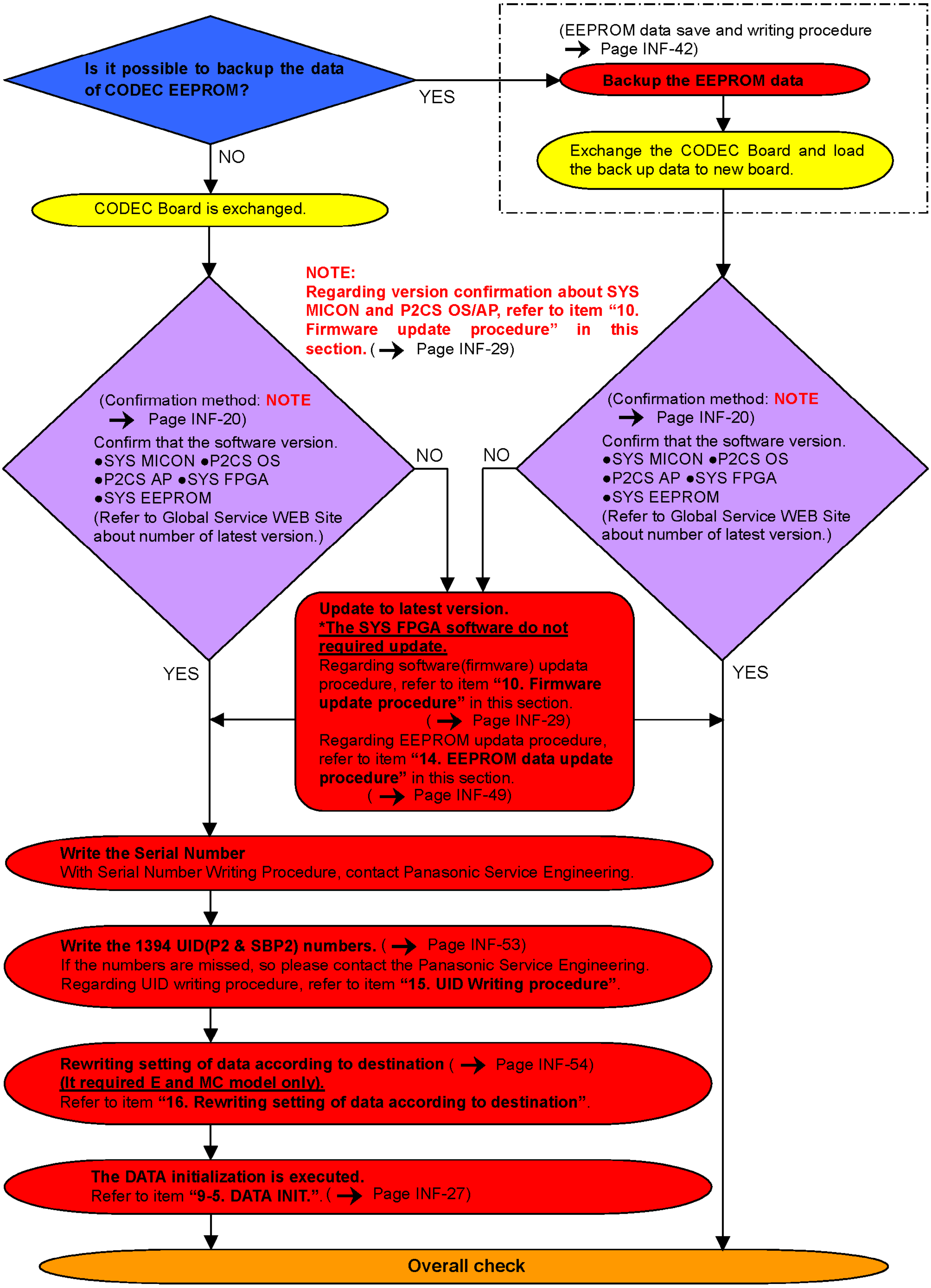
***The VCR MICON and VCR DUO software do not required update.**
Regarding EEPROM updata procedure, refer to item **"14. EEPROM data update procedure"** in this section.
(→ Page INF-49)

Write the 1394 UID(TAPE) numbers.
If the numbers are missed, So please contact the Panasonic Service Engineering.
Regarding UID writing procedure, refer to item **"15. UID Writing procedure"**.
(→ Page INF-53)

VTR Adjustment is required.
Regarding required adjustment items, refer to item **"7-3. Adjustment after replacement of major Parts"**. (→ Page INF-16)

Overall check

7-2-3. CODEC Board



Is it possible to backup the data of CODEC EEPROM?

(EEPROM data save and writing procedure → Page INF-42)

Backup the EEPROM data

Exchange the CODEC Board and load the back up data to new board.

CODEC Board is exchanged.

NOTE:
Regarding version confirmation about SYS MICON and P2CS OS/AP, refer to item "10. Firmware update procedure" in this section. (→ Page INF-29)

(Confirmation method: **NOTE** → Page INF-20)
Confirm that the software version.
- SYS MICON ●P2CS OS
- P2CS AP ●SYS FPGA
- SYS EEPROM

(Refer to Global Service WEB Site about number of latest version.)

(Confirmation method: **NOTE** → Page INF-20)
Confirm that the software version.
- SYS MICON ●P2CS OS
- P2CS AP ●SYS FPGA
- SYS EEPROM

(Refer to Global Service WEB Site about number of latest version.)

Update to latest version.
***The SYS FPGA software do not required update.**
Regarding software(firmware) updata procedure, refer to item **"10. Firmware update procedure"** in this section.
(→ Page INF-29)
Regarding EEPROM updata procedure, refer to item **"14. EEPROM data update procedure"** in this section.
(→ Page INF-49)

Write the Serial Number
With Serial Number Writing Procedure, contact Panasonic Service Engineering.

Write the 1394 UID(P2 & SBP2) numbers. (→ Page INF-53)
If the numbers are missed, so please contact the Panasonic Service Engineering.
Regarding UID writing procedure, refer to item **"15. UID Writing procedure"**.

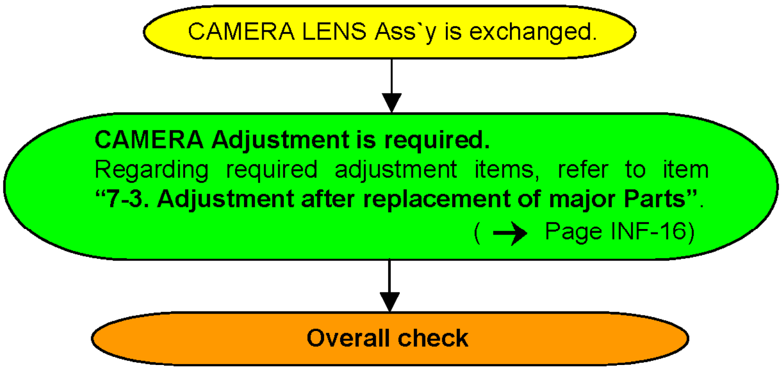
Rewriting setting of data according to destination (→ Page INF-54)
(It required E and MC model only).
Refer to item **"16. Rewriting setting of data according to destination"**.

The DATA initialization is executed.
Refer to item **"9-5. DATA INIT."**. (→ Page INF-27)

Overall check

7-2-4. CAMERA LENS Ass`y

When LENS Ass`y, PRISM Ass`y and ZOOM MOTOR Ass`y are is exchanged, it requires same operation.

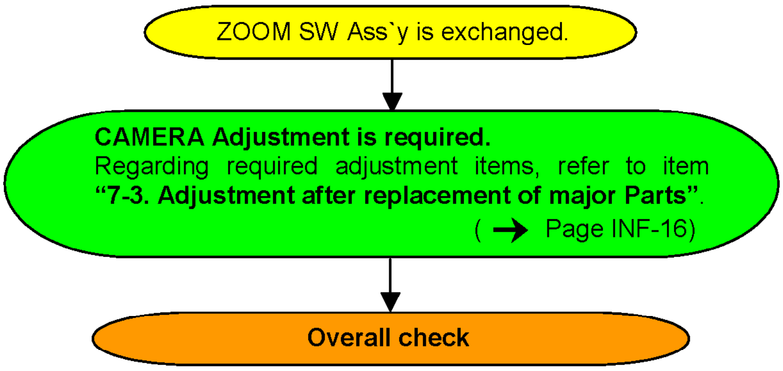


CAMERA LENS Ass`y is exchanged.

CAMERA Adjustment is required.
Regarding required adjustment items, refer to item **“7-3. Adjustment after replacement of major Parts”**.
(→ Page INF-16)

7-2-5. ZOOM SW Ass`y

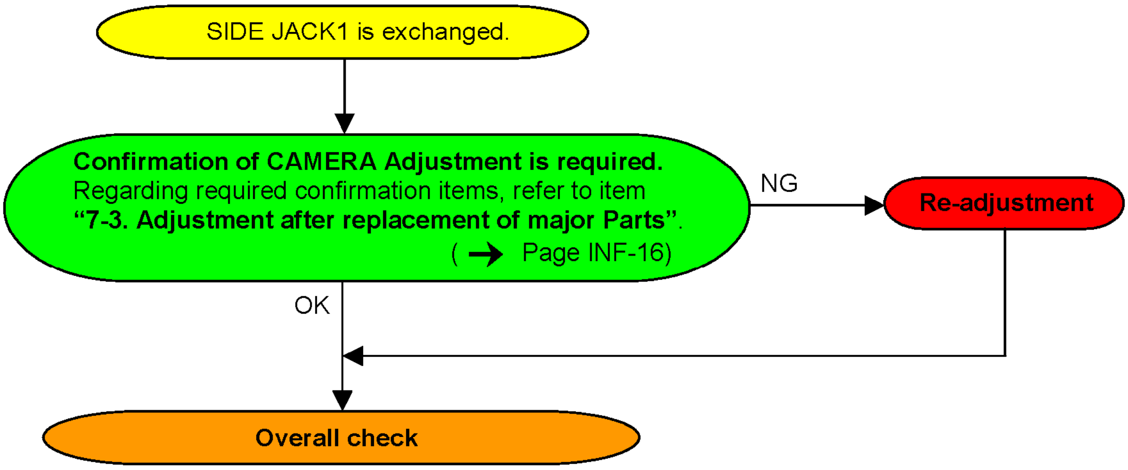
When ZOOM SW board is exchanged, it requires same operation.



ZOOM SW Ass`y is exchanged.

CAMERA Adjustment is required.
Regarding required adjustment items, refer to item **“7-3. Adjustment after replacement of major Parts”**.
(→ Page INF-16)

7-2-6. SIDE JACK1 Board

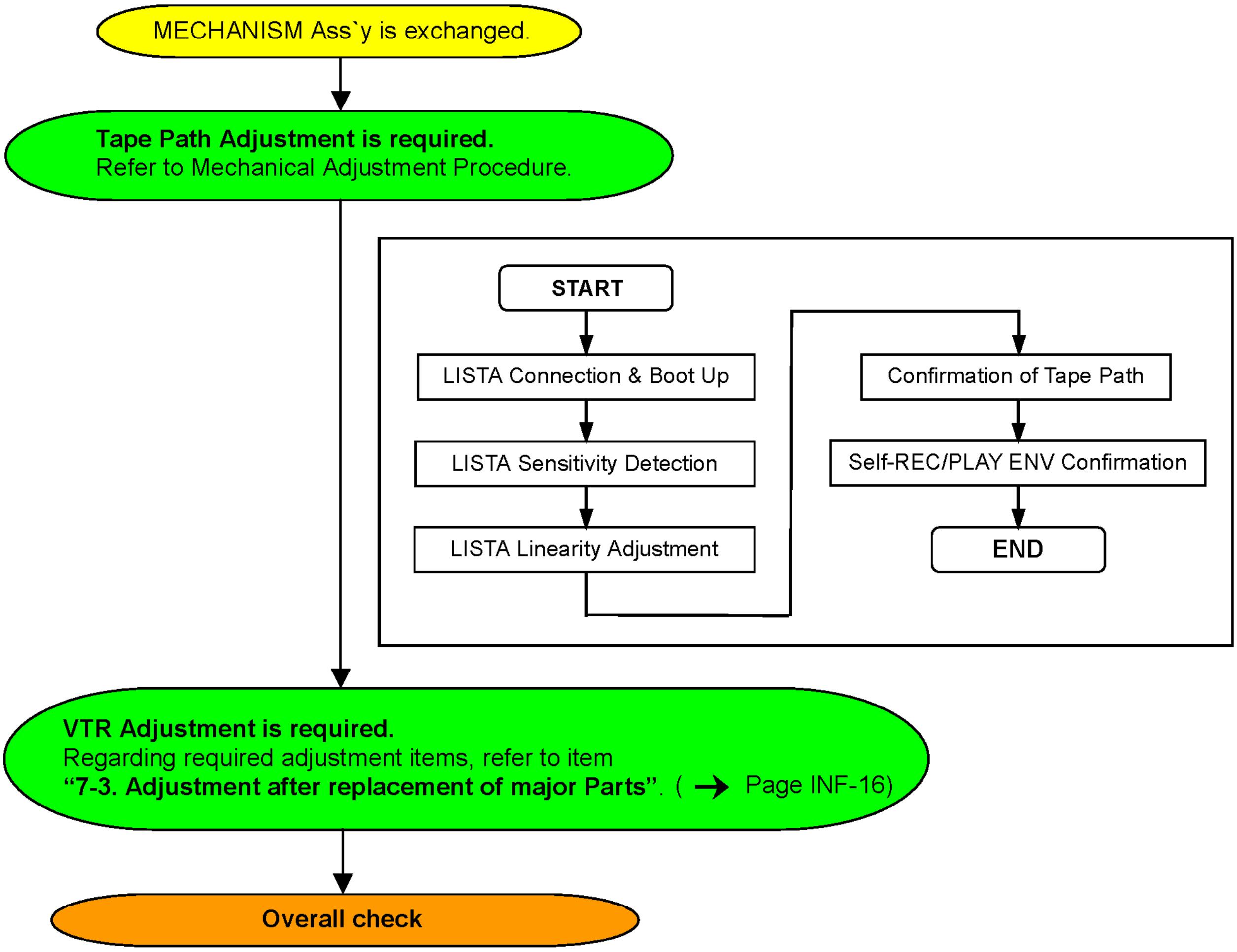


SIDE JACK1 is exchanged.

Confirmation of CAMERA Adjustment is required.
Regarding required confirmation items, refer to item **“7-3. Adjustment after replacement of major Parts”**.
(→ Page INF-16)

7-2-7. MECHANISM Ass`y

When MECHA I/F Board is exchanged, it requires same operation.


MECHANISM Ass`y is exchanged.
Tape Path Adjustment is required.
Refer to Mechanical Adjustment Procedure.
START
LISTA Connection & Boot Up
LISTA Sensitivity Detection
LISTA Linearity Adjustment
Confirmation of Tape Path
Self-REC/PLAY ENV Confirmation
END
VTR Adjustment is required.
Regarding required adjustment items, refer to item
"7-3. Adjustment after replacement of major Parts". (→ Page INF-16)
Overall check

7-3. Adjustment after replacement of major parts

If one of the Major part listed requires replacement, the table below indicates what electrical adjustments are required.

7-3-1. CAMERA Adjustment

ADJUSTMENT ITEM	CAMERA Board	CAMERA LENS Ass`y			ZOOM SW Ass`y	SIDE JACK1 Board
		LENS Ass`y	PRISM Ass`y	ZOOM MOTOR Ass`y		
Zoom SW Center Value	X				X	
Hall Amp (Auto)	X	X				
Iris PWM (Auto)	X	X				
OIS (Auto)	X	X				
Zoom Tracking (Auto)	X	X		X		
CCD White scratch damage revision	X		X			
Preparation of White Balance	X		X			
White Balance (3100K) (Auto)	X		X			
White Balance (5100K) (Auto)	X		X			
White Balance (4500K) (Auto)	X		X			
White Balance (3600K) (Auto) *NOTE	X		X			
White Shading (Auto)	X		X			
Sync Level	X					●
Y Level	X					●
Pb Level	X					●
Pr Level	X					●
Luminance Level	X					●
Chroma Level	X					●
SETUP *NOTE	X					

X: Adjustment Required
● : Confirmation Required

*NOTE: White Balance (3600K) and SETUP adjustment is required only for NTSC model.

7-3-2. VTR Adjustment

ADJUSTMENT ITEM	VTR Board	MECHANIZM Ass`y	MECHA IF Board
Sensitivity adj of Tape sensor	X	X	X
PG Shifter	X	X	X

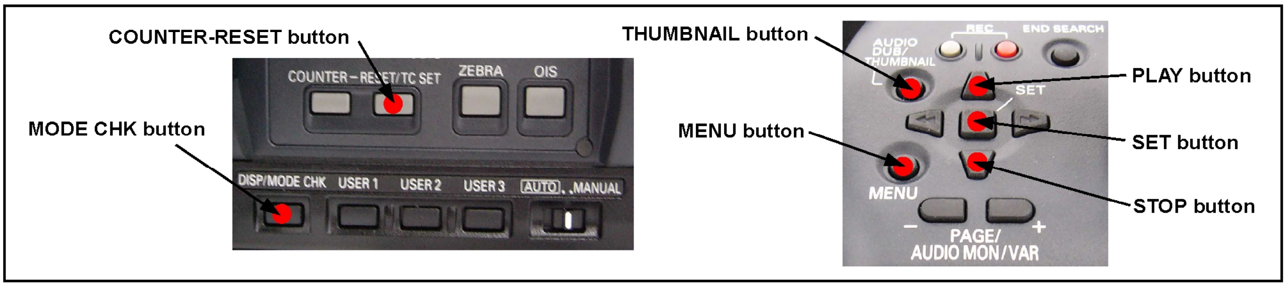
X: Adjustment Required

NOTE:
When the adjustment data backed up is written in a new board when VTR board is exchanged, the adjustment is unnecessary.

8. Service menu

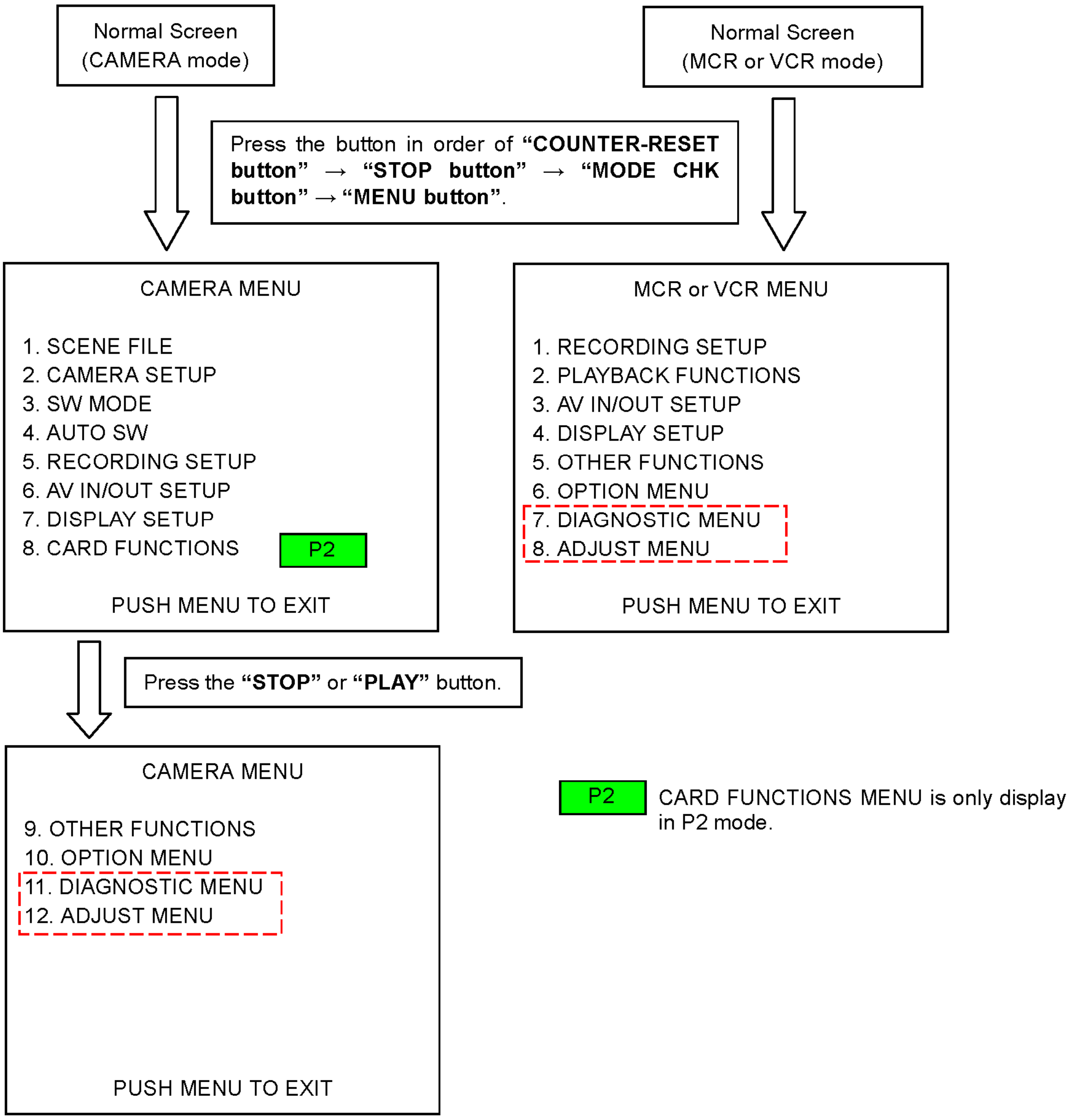
The DIAGNOSTIC and ADJUST menu can be displayed as follows.

Press the button in order of **“COUNTER-RESET button”** → **“STOP button”** → **“MODE CHK button”** → **“MENU button”**, DIAGNOSTIC and the ADJUST menu can be displayed in addition to a setup menus.


COUNTER-RESET button
MODE CHK button
COUNTER-RESET/TC SET
ZEBRA
OIS
DISP/MODE CHK
USER 1
USER 2
USER 3
AUTO
MANUAL
THUMBNAIL button
MENU button
AUDIO DUB/THUMBNAIL
REC
END SEARCH
SET
MENU
PAGE/AUDIO MON/VAR
PLAY button
SET button
STOP button

Next, press the PLAY or STOP button to select the DIAGNOSTIC or ADJUST menu. And press SET(STILL) button to open the DIAGNOSTIC or ADJUST menu.

NOTE 1: P2-PC and TAPE-DUB mode can not be display the DIAGNOSTIC and ADJUST menu.
NOTE 2: Before performing menu operations on P2-MCR mode, you must clear the thumbnail screen. If the thumbnail menu is displayed, press the THUMBNAIL button to release the display.



Normal Screen
(CAMERA mode)

Normal Screen
(MCR or VCR mode)

Press the button in order of **“COUNTER-RESET button”** → **“STOP button”** → **“MODE CHK button”** → **“MENU button”**.

CAMERA MENU

1. SCENE FILE
2. CAMERA SETUP
3. SW MODE
4. AUTO SW
5. RECORDING SETUP
6. AV IN/OUT SETUP
7. DISPLAY SETUP
8. CARD FUNCTIONS P2

PUSH MENU TO EXIT

MCR or VCR MENU

1. RECORDING SETUP
2. PLAYBACK FUNCTIONS
3. AV IN/OUT SETUP
4. DISPLAY SETUP
5. OTHER FUNCTIONS
6. OPTION MENU
7. DIAGNOSTIC MENU
8. ADJUST MENU

PUSH MENU TO EXIT

Press the **“STOP”** or **“PLAY”** button.

CAMERA MENU

9. OTHER FUNCTIONS
10. OPTION MENU
11. DIAGNOSTIC MENU
12. ADJUST MENU

PUSH MENU TO EXIT

P2 CARD FUNCTIONS MENU is only display in P2 mode.

Display the following items on the DIAGNOSTIC and ADJUST menu by setting of operation mode.

MENU	ITEM	OPERATION MODE			
		P2		TAPE	
		CAM	MCR	CAM	VCR
DIAGNOSTIC	BER DISPLAY	X	X	X	●
	SAMPLE SPEED	X	X	X	●
	SOFT VERSION	●	X	●	X
	EEPROM VERSION	●	●	●	●
	CYLINDER	X	X	●	●
	TAPE RUN	X	X	●	●
	THREADING	X	X	●	●
	1394 DIAG	●	●	●	●
	1394 UID	●	●	●	●
ADJUST	ATF GAIN	X	X	X	●
	LINEARITY	X	X	X	●
	AUDIO FILTER	●	●	●	●
	Y LEVEL	●	●	●	●
	C LEVEL	●	●	●	●
	CMPNT Y LEVEL	●	●	●	●
	CMPNT PB LEVEL	●	●	●	●
	CMPNT PR LEVEL	●	●	●	●
	DEFECT COMP	●	X	●	X
	DEBUG DISP	●	●	●	●
	DEBUG MODE	●	●	●	●
	LCD OFFSET	●	●	●	●
	EVF OFFSET	●	●	●	●
	1394 GAP COUNT	●	●	X	X

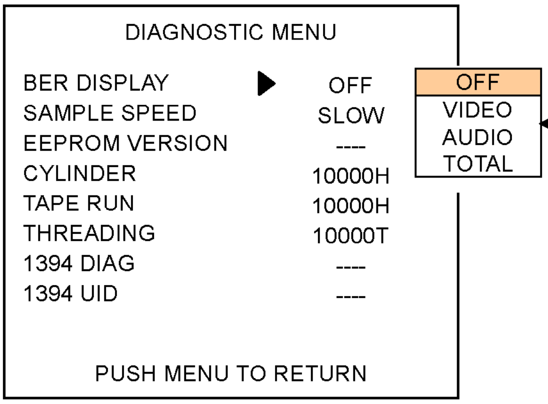
●: Displayed
X: Not displayed

NOTE: Please do not change the setting of the items of “DEFFECT COMP”, “DEBUG DISP” and “DEBUG MODE”. These items are for factory use only.
Factory default setting is “OFF”.

8-1. DIAGNOSTIC MENU

8-1-1. How to display the Error Rate.

This unit can be displayed Error Rate and it shows the playing condition of the VCR.
In case of the error rate is displayed, BER DISPLAY and SAMPLE SPEED mode is select on DIAGNOSTIC menu.



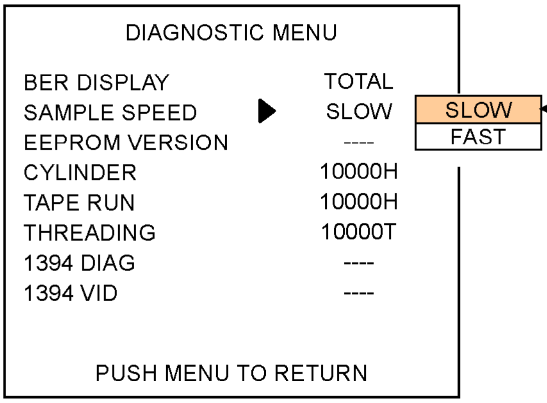
DIAGNOSTIC MENU

BER DISPLAY ▶ OFF
SAMPLE SPEED SLOW
EEPROM VERSION ----
CYLINDER 10000H
TAPE RUN 10000H
THREADING 10000T
1394 DIAG ----
1394 UID ----

PUSH MENU TO RETURN

Select the item BER DISPLAY and press SET(STILL) button.
Select VIDEO, AUDIO or TOTAL by PLAY or STOP button and press SET(STILL) button.
Factory default setting is “OFF”.

After selecting BER DISPLAY mode, move to item of SAMPLE SPEED by press PLAY or STOP button



DIAGNOSTIC MENU

BER DISPLAY TOTAL
SAMPLE SPEED ▶ SLOW
EEPROM VERSION ----
CYLINDER 10000H
TAPE RUN 10000H
THREADING 10000T
1394 DIAG ----
1394 VID ----

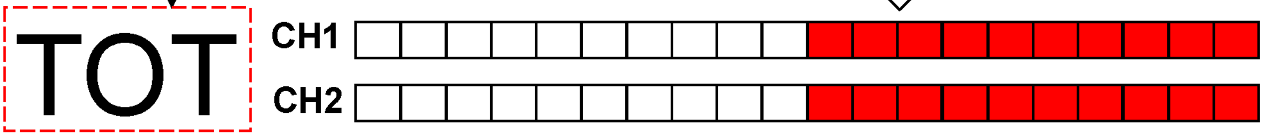
PUSH MENU TO RETURN

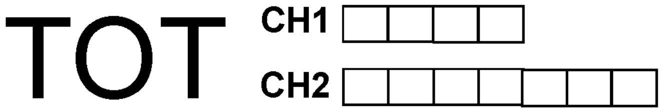
Select SLOW or FAST by PLAY or STOP button and press SET(STILL) button.
Factory default setting is “SLOW”.

The Audio Level Meter is change to error rate display, when returning to the normal screen.
NOTE:
The display screen is changed only in the TAPE-VCR mode.

When selecting TOTAL in BER DISPLAY mode, it is displayed “TOT” and if select VIDEO, it is displayed “VID” and if select AUDIO, it is displayed “AUD”.

The color of the bar
In case of white display: Error rate is good
In case of red display: Error rate is bad





How to confirm the Error rate.

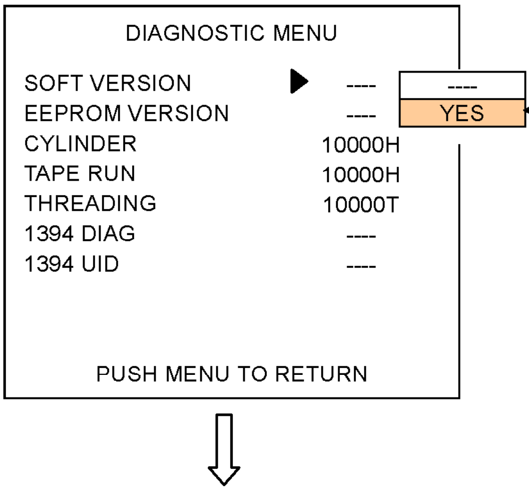
1. Select the TOTAL in item of BER DISPLAY.
2. Record the color bar signal on LP mode and playback the recorded portion. Confirm that the number of bar on display within 10 bars or less. The less bars displayed the better the error rate (LP mode can be set by item REC SPEED in RECORDING SETUP menu).

8-1-2. Software Version Display.

Each software version can be confirm at item **"SOFT VERSION"** and **"EEPROM VERSION"** in DIAGNOSTIC menu.

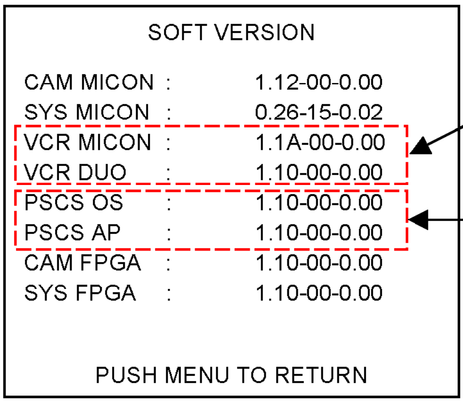
Type	Name on display	Ref No.	Board
Microprocessor	CAM MICON	IP504	CAMERA
	SYS MICON	IP305	CODEC
	VCR MICON	IP1(VTR MAIN MICON)	VTR
	VCR DUO	IC9(VTR SUB MICON)	VTR
FLASH	P2CS OS	IP202(SH4)	CODEC
	P2CS AP	IP203(SH4)	
	CAM FPGA	IP100(TG FPGA)	CAMERA
	SYS FPGA	IP706(OSD FPGA)	CODEC
EEPROM	CAM	IP500	CAMERA
	SYS	IP306	CODEC
	VCR	IP2	VTR

SOFT VERSION



```
DIAGNOSTIC MENU

SOFT VERSION     ▶   ----   ----
EEPROM VERSION       ----   YES
CYLINDER           10000H
TAPE RUN           10000H
THREADING          10000T
1394 DIAG            ----
1394 UID             ----

PUSH MENU TO RETURN
```

Select YES and press SET(STILL) button to move the SOFT VERSION display screen.

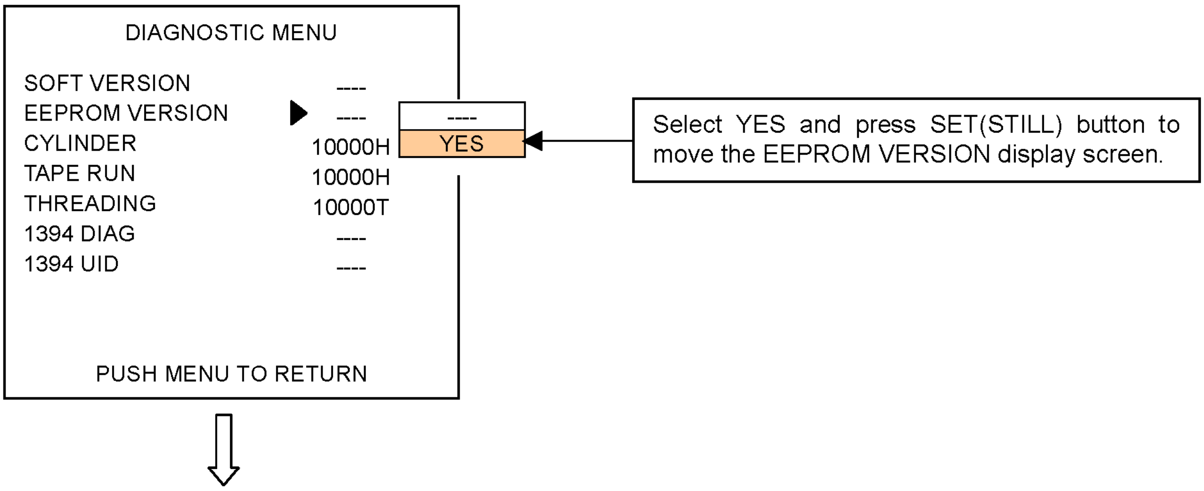


```
SOFT VERSION

CAM MICON  :    1.12-00-0.00
SYS MICON  :    0.26-15-0.02
VCR MICON  :    1.1A-00-0.00
VCR DUO    :    1.10-00-0.00
PSCS OS    :    1.10-00-0.00
PSCS AP    :    1.10-00-0.00
CAM FPGA   :    1.10-00-0.00
SYS FPGA   :    1.10-00-0.00

PUSH MENU TO RETURN
```

Only as for the TAPE-CAMERA mode, the version number is displayed.

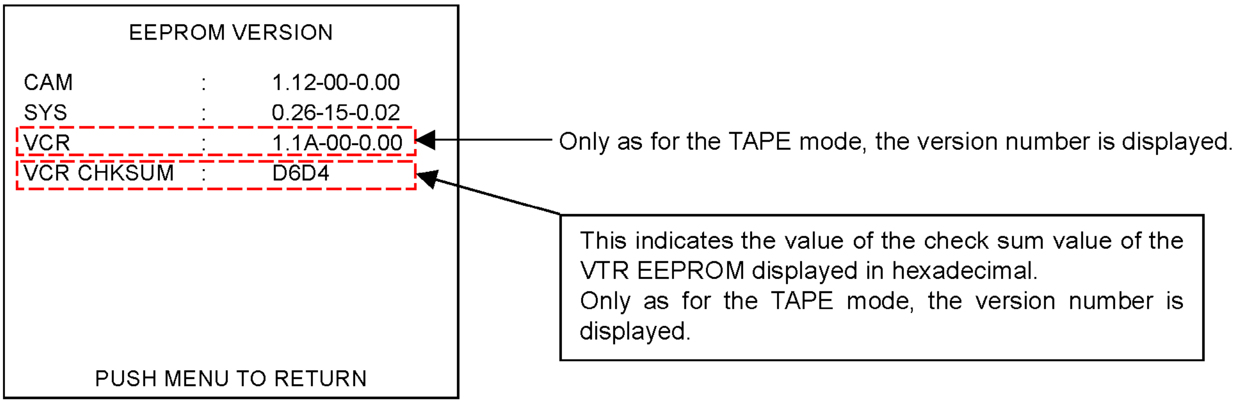
Only as for the P2-CAMERA mode, the version number is displayed.

EEPROM VERSION



```
DIAGNOSTIC MENU

SOFT VERSION              ----
EEPROM VERSION       ▶    ----   ----
CYLINDER               10000H    YES
TAPE RUN               10000H
THREADING              10000T
1394 DIAG                 ----
1394 UID                  ----

PUSH MENU TO RETURN
```

Select YES and press SET(STILL) button to move the EEPROM VERSION display screen.

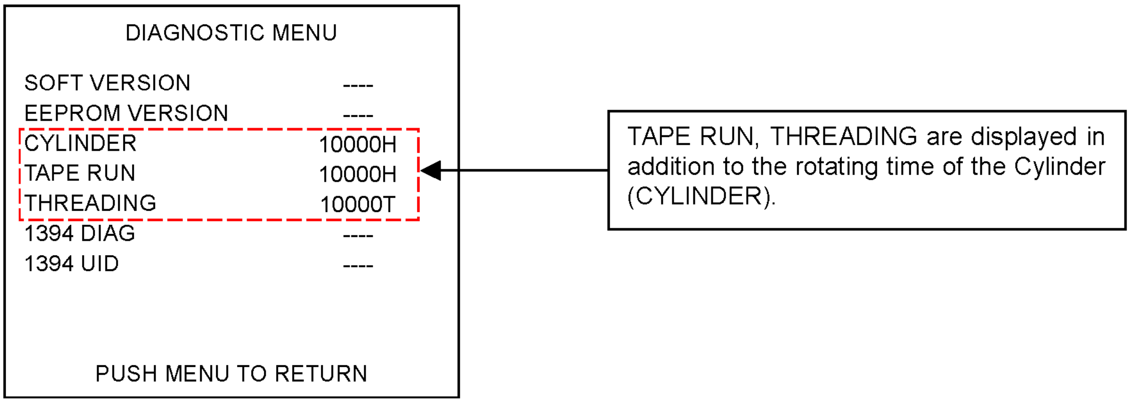


```
EEPROM VERSION

CAM           :    1.12-00-0.00
SYS           :    0.26-15-0.02
VCR           :    1.1A-00-0.00
VCR CHKSUM    :    D6D4

PUSH MENU TO RETURN
```

Only as for the TAPE mode, the version number is displayed.

This indicates the value of the check sum value of the VTR EEPROM displayed in hexadecimal.
Only as for the TAPE mode, the version number is displayed.

8-1-3. Hour Meter Display.

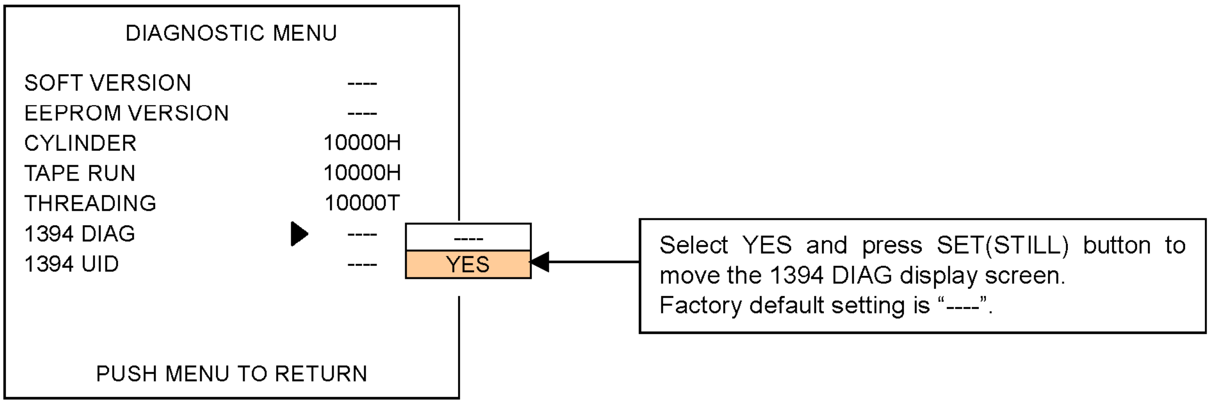


```
DIAGNOSTIC MENU

SOFT VERSION              ----
EEPROM VERSION            ----
CYLINDER                10000H
TAPE RUN                10000H
THREADING               10000T
1394 DIAG                 ----
1394 UID                  ----

PUSH MENU TO RETURN
```

TAPE RUN, THREADING are displayed in addition to the rotating time of the Cylinder (CYLINDER).

ITEM	Display Data	Description
TAPE RUN	00000H – 99999H	It displays the time that the tape is running in units of hours.
THREADING	00000T – 99999T	It displays the number of times the tape is inserted.
CYLINDER	00000H – 99999H	It displays the time that the cylinder is rotating in units of hours. It displays same time as in the item HOUR METER of OTHER FUNCTION menu.

8-1-4. 1394 DIAG Display.



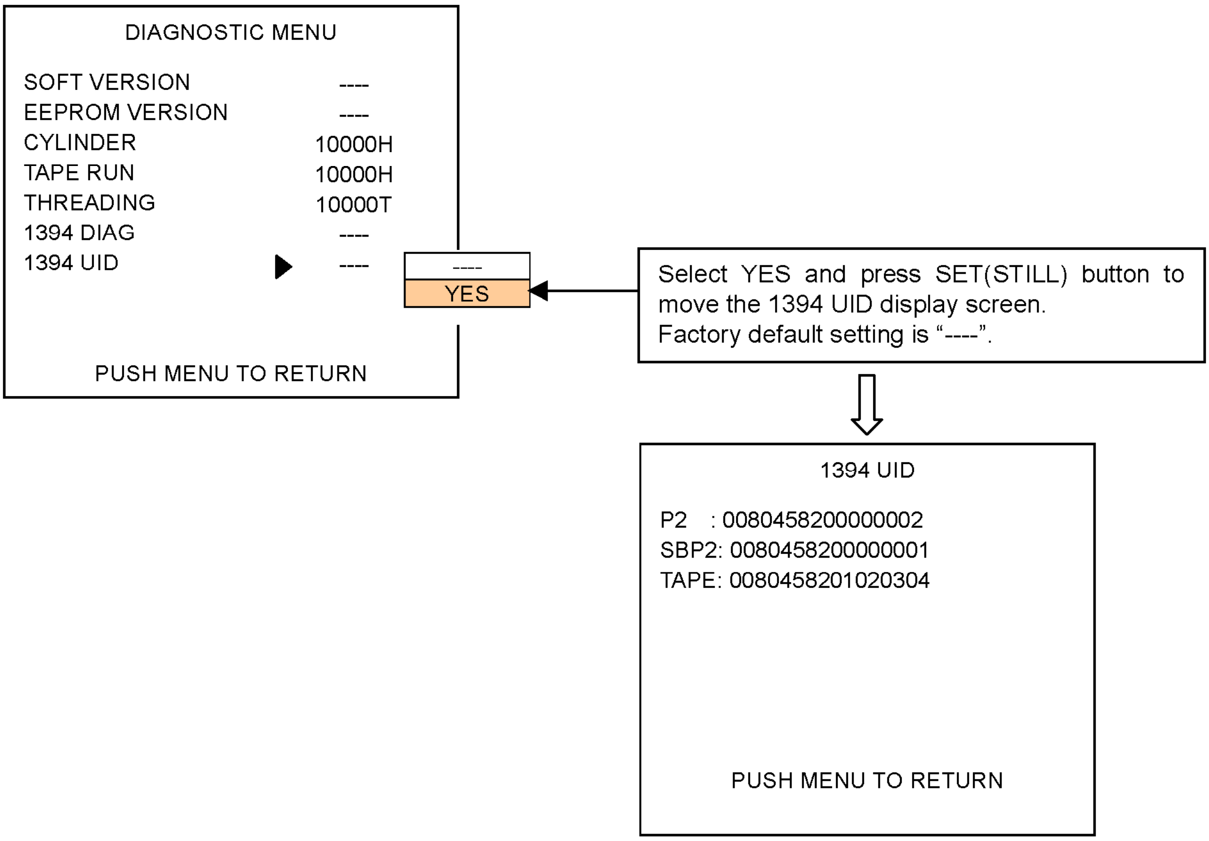
```
DIAGNOSTIC MENU

SOFT VERSION          ----
EEPROM VERSION        ----
CYLINDER              10000H
TAPE RUN              10000H
THREADING             10000T
1394 DIAG          ▶  ----     ----
1394 UID              ----     YES

PUSH MENU TO RETURN
```

Select YES and press SET(STILL) button to move the 1394 DIAG display screen.
Factory default setting is “----”.

Items	Description	Remark
NODE CNT	Number of NODE connections.	
MY_ID	NODE ID of this unit.	
ROOT_ID	ROOT ID	
IRM_ID	PHY ID of IRM	IRM(Isochronous Resonance Manager)
RCV_ID	PHY ID of the equipment which is transmitting the data to be receiving of this unit.	
GAP CNT	Current gap count value	

8-1-5. 1394 UID Display.

1394 UID screen is indicate 3 kinds of ID product number P2, SBP2 and TAPE.



```
DIAGNOSTIC MENU

SOFT VERSION          ----
EEPROM VERSION        ----
CYLINDER              10000H
TAPE RUN              10000H
THREADING             10000T
1394 DIAG             ----
1394 UID           ▶  ----     ----
                               YES

PUSH MENU TO RETURN
```

Select YES and press SET(STILL) button to move the 1394 UID display screen.
Factory default setting is “----”.

```
1394 UID

P2   : 0080458200000002
SBP2: 0080458200000001
TAPE: 0080458201020304

PUSH MENU TO RETURN
```

8-2. ADJUST MENU

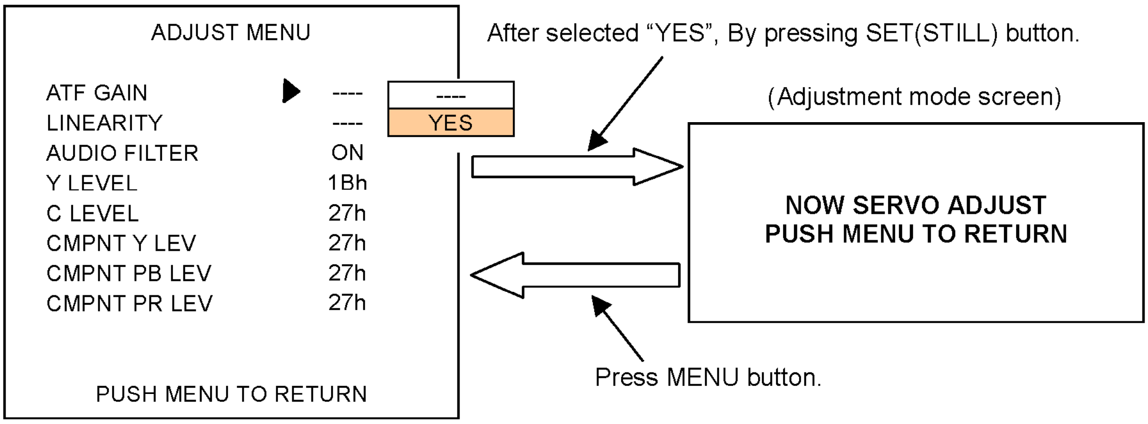
8-2-1. Setting item for LISTA Measurement

ATF GAIN

The speed of the tape changes if this item set to “YES” for the ATF sensitivity confirmation.
After selected “YES”, by pressing SET(STILL) button, enter the adjustment mode and then exit the menu once. The VTR mode is operated when the menu mode is exited temporarily. The screen below is displayed.

NOW SERVO ADJUST
PUSH MENU TO RETURN

It will be returned to ADJUST MENU when the MENU button is pressed in this condition.



ADJUST MENU

ATF GAIN ▶ ----
LINEARITY ----
AUDIO FILTER ON
Y LEVEL 1Bh
C LEVEL 27h
CMPNT Y LEV 27h
CMPNT PB LEV 27h
CMPNT PR LEV 27h

PUSH MENU TO RETURN

After selected “YES”, By pressing SET(STILL) button.

(Adjustment mode screen)

NOW SERVO ADJUST
PUSH MENU TO RETURN

Press MENU button.

LINEARITY

The ATF sensitivity changes if this item set to “YES” for the LINEARITY confirmation.
After selected “YES”, by pressing SET(STILL) button, enter the adjustment mode and then exit the menu once. The VTR mode is operated when the menu mode is exited temporarily. The screen below is displayed.

NOW SERVO ADJUST
PUSH MENU TO RETURN

It will be returned to ADJUST MENU when the MENU button is pressed in this condition.

8-2-2. Audio Filter

AUDIO FILTER

ON: The mechanism noise cancellation function operates by IC9(DUO).
OFF: The mechanism noise cancellation function does not operates by IC9(DUO).

Factory default setting is “ON”.

8-2-3. Adjustment item for Video Level

Y LEVEL
Y level of VIDEO OUT and S-VIDEO OUTPUT signal can be adjusted on this item.
The displayed value is the same as value for Luminance level adjustment in EVR adjustment.

C LEVEL
C level of VIDEO OUT and S-VIDEO OUTPUT signal can be adjusted on this item.
The displayed value is the same as value for Chroma level adjustment in EVR adjustment.

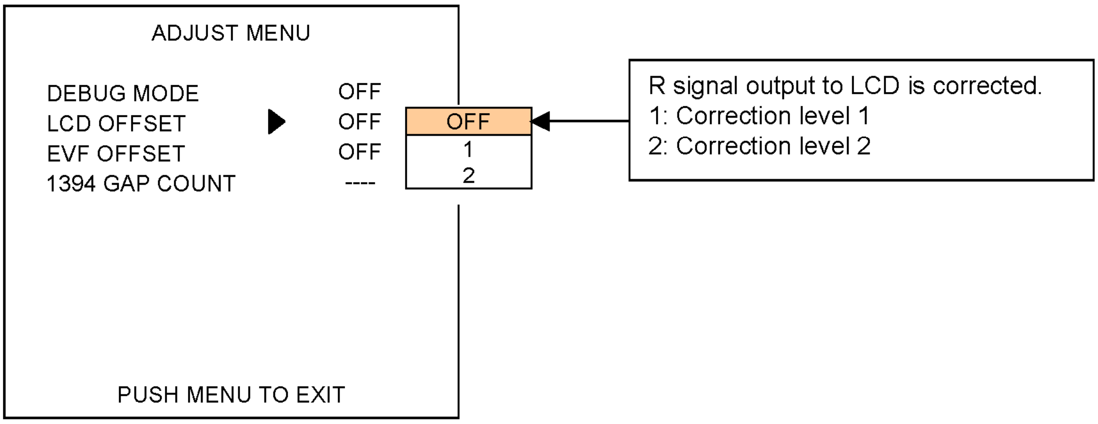
CMPNT Y LVL
Component Y level of COMPONENT OUTPUT signal can be adjusted on this item.
The displayed value is the same as value for Component Y level adjustment in EVR adjustment.

CMPNT PB LVL
Component PB level of COMPONENT OUTPUT signal can be adjusted on this item.
The displayed value is the same as value for Component PB level adjustment in EVR adjustment.

CMPNT PR LVL
Component PR level of COMPONENT OUTPUT signal can be adjusted on this item.
The displayed value is the same as value for Component PR level adjustment in EVR adjustment.

8-2-4. LCD/EVF Correction

LCD OFFSET



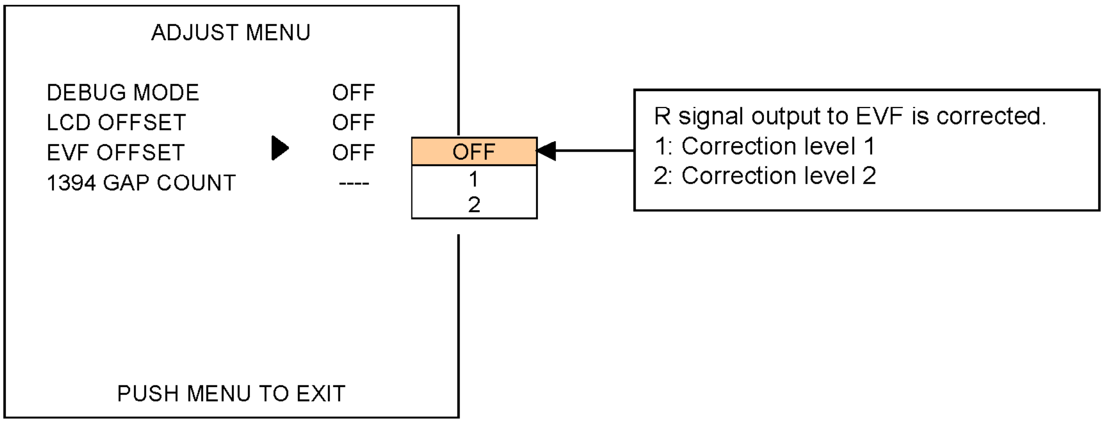
ADJUST MENU

DEBUG MODE OFF
LCD OFFSET ▶ OFF
EVF OFFSET OFF
1394 GAP COUNT ----

PUSH MENU TO EXIT

R signal output to LCD is corrected.
1: Correction level 1
2: Correction level 2

EVF OFFSET



ADJUST MENU

DEBUG MODE OFF
LCD OFFSET OFF
EVF OFFSET ▶ OFF
1394 GAP COUNT ----

PUSH MENU TO EXIT

R signal output to EVF is corrected.
1: Correction level 1
2: Correction level 2

8-2-5. 1394 GAP COUNT

Setting at communication response time.

9. Service menu (GUI)

9-1. Making of Service SD Card

The Service SD card is required to display the service menu on GUI screen.

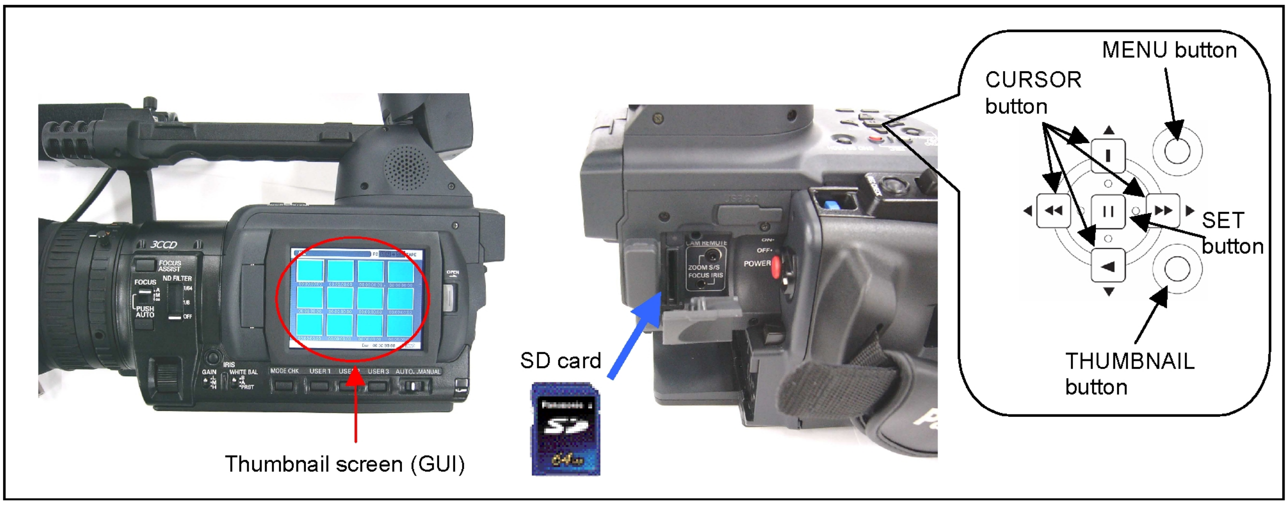
1. Download the file **"Service SD Card"** from Global Service Web Site.
2. Copy the file **"Service SD Card"** to hard disk of your PC and extract the file **"Service SD Card".**
3. Insert a formatted SD card into the card slot of PC and copy the folder **"PRIVATE"** to SD card. The downloaded file **"passwd"** is included in folder **"PRIVATE"**.

NOTE: Do not change the construction of folder and file name. The folder construction shown in the following and top of directory should be **"PRIVATE"**.

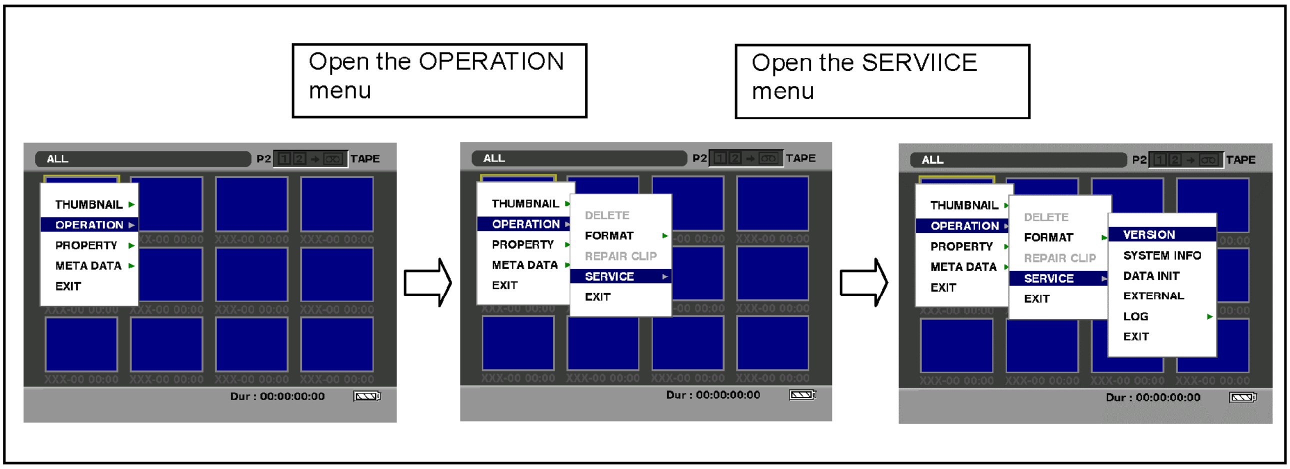
Folder: PRIVATE \ MEIGROUP \ PAVCN \ SBG \ P2SD \ mntnc
File Name: passwd

9-2. How to open the menu

1. Press the **THUMBNAIL button** to display the thumbnail screen.
2. Insert a Service SD card into the SD card insertion slot of this unit.


MENU button
CURSOR button
SET button
THUMBNAIL button
SD card
Thumbnail screen (GUI)

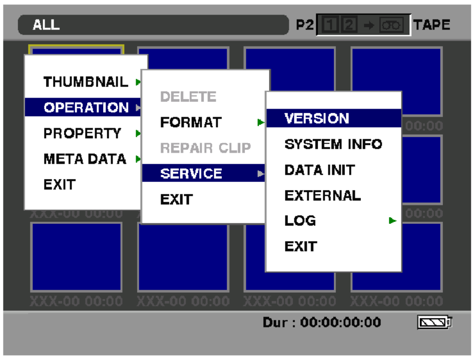
3. Press the **MENU button** to display the menu. Use the **CURSOR buttons** to select the **"OPERATION"** and press **SET button** to open the OPERATION menu.
4. Select the item **"SERVICE"** on the menu and press the **SET button**. The service menu is displayed.

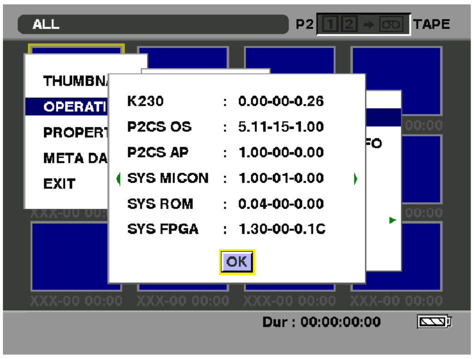

Open the OPERATION menu
Open the SERVIICE menu
ALL
P2
TAPE
THUMBNAIL
OPERATION
PROPERTY
META DATA
EXIT
DELETE
FORMAT
REPAIR CLIP
SERVICE
EXIT
VERSION
SYSTEM INFO
DATA INIT
EXTERNAL
LOG
EXIT
Dur : 00:00:00:00

9-3. VERSION

Each software version can be confirmed.

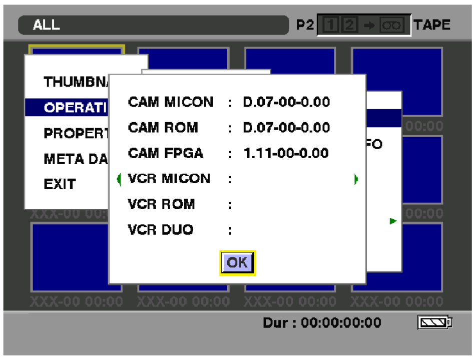
1. Select the item **"VERSION"** on the service menu and press the **SET button**. The following screen is displayed.
2. Press the **CURSOR button** so that the version screen is switched over.


ALL
P2
TAPE
THUMBNAIL
OPERATION
PROPERTY
META DATA
EXIT
DELETE
FORMAT
REPAIR CLIP
SERVICE
EXIT
VERSION
SYSTEM INFO
DATA INIT
EXTERNAL
LOG
EXIT
XXX-00 00:00
Dur : 00:00:00:00


ALL
P2
TAPE
OK
Dur : 00:00:00:00

K230 : 0.00-00-0.26
P2CS OS : 5.11-15-1.00
P2CS AP : 1.00-00-0.00
SYS MICON : 1.00-01-0.00
SYS ROM : 0.04-00-0.00
SYS FPGA : 1.30-00-0.1C

It switches over when press the cursor button.


ALL
P2
TAPE
OK
Dur : 00:00:00:00

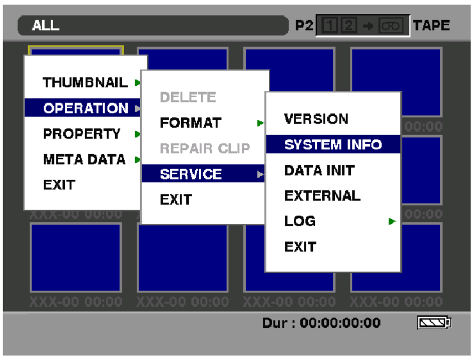
CAM MICON : D.07-00-0.00
CAM ROM : D.07-00-0.00
CAM FPGA : 1.11-00-0.00
VCR MICON :
VCR ROM :
VCR DUO :

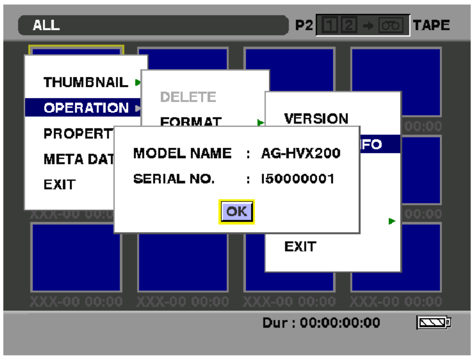
3. Press the **SET button** to exit this screen.

9-4. SYSTEM INFO

The information of model name and serial number can be confirmed.

1. Select the item **"STSTEM INFO"** on the service menu and press the **SET button**. The following screen is displayed.


ALL
P2
TAPE
THUMBNAIL
OPERATION
PROPERTY
META DATA
EXIT
DELETE
FORMAT
REPAIR CLIP
SERVICE
EXIT
VERSION
SYSTEM INFO
DATA INIT
EXTERNAL
LOG
EXIT
XXX-00 00:00
Dur : 00:00:00:00


ALL
P2
TAPE
THUMBNAIL
OPERATION
DELETE
FORMAT
VERSION
EXIT
OK
Dur : 00:00:00:00

MODEL NAME : AG-HVX200
SERIAL NO. : I50000001

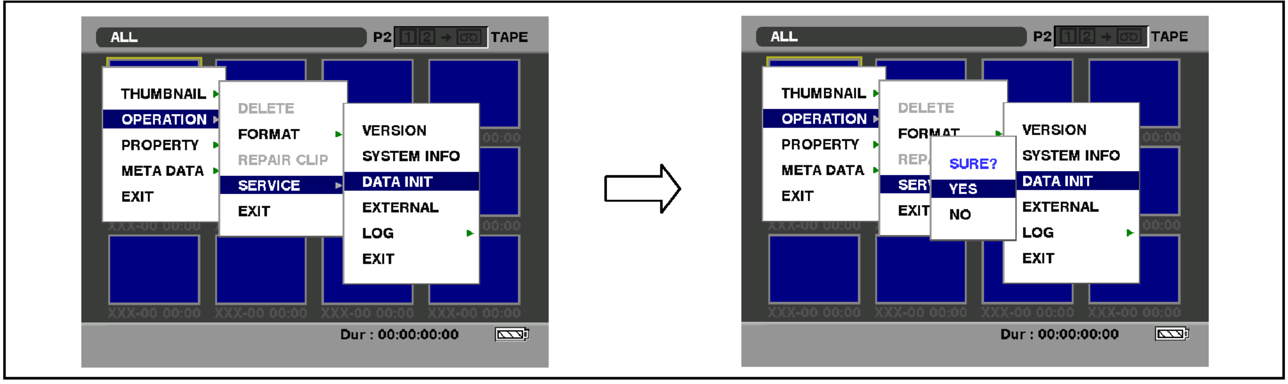
2. Press the **SET button** to exit this screen.

9-5. DATA INIT.

The GUI menu and the meta data is initialized by executing the DATA initialization.
In case of the FLASH ROM (IP202 and 203) is exchanged to new one on CODEC board or after rewriting setting of data according to destination on CODEC board, it is necessary to execute the DATA initialization.

NOTE: Please exchange both IP202 and 203 to new one when you exchange FLASH ROM. And it is necessary to write the program in FLASH ROM. Please contact Panasonic Service Engineering about writing procedure.

1. Select the item **"DATA INIT"** on the service menu and press the **SET button**. The confirmation menu of the execution is displayed.

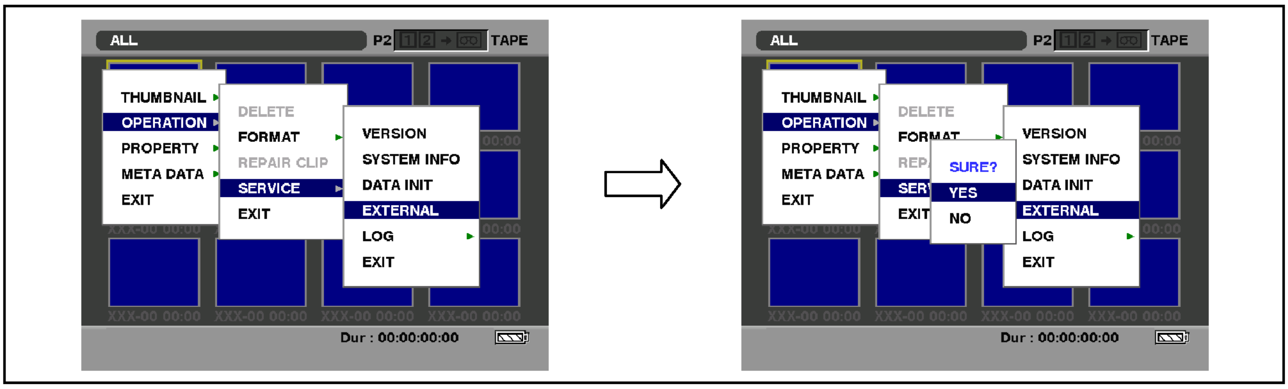

ALL
P2
TAPE
THUMBNAIL
OPERATION
PROPERTY
META DATA
EXIT
DELETE
FORMAT
REPAIR CLIP
SERVICE
EXIT
VERSION
SYSTEM INFO
DATA INIT
EXTERNAL
LOG
EXIT
Dur : 00:00:00:00
SURE?
YES
NO

2. Select the item **"YES"** and press **SET button**.

9-6. EXTERNAL

NOTE: This menu is only use at factory.

1. Select the item **"EXTERNAL"** on the service menu and press the **SET button**. The confirmation menu of the execution is displayed.

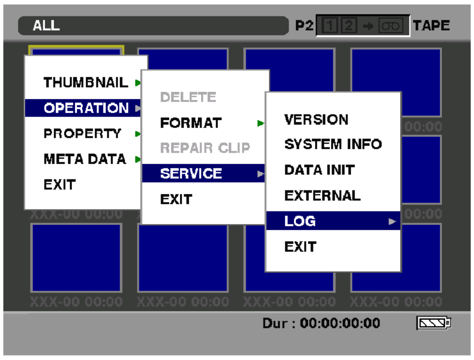

ALL
P2
TAPE
THUMBNAIL
OPERATION
PROPERTY
META DATA
EXIT
DELETE
FORMAT
REPAIR CLIP
SERVICE
EXIT
VERSION
SYSTEM INFO
DATA INIT
EXTERNAL
LOG
EXIT
Dur : 00:00:00:00
SURE?
YES
NO

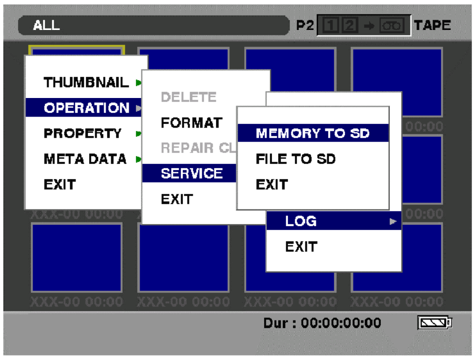
9-7. LOG

The LOG data can be written on the SD card.
Please execute **“MEMORY TO SD”** and **“FILE TO SD”**, when you write the LOG data on the SD card,.

MEMORY TO SD: The LOG data is transfer to SD card from FLASH ROM on CODEC board.
FILE TO SD: The LOG data is transfer to SD card from SH4MICON on CODEC board.

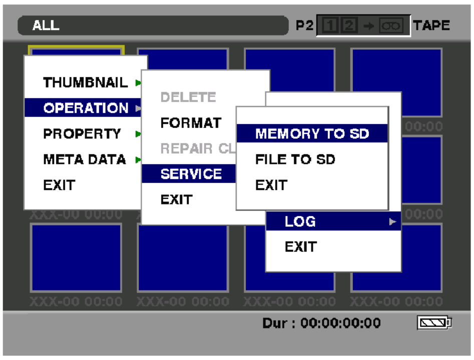
1. Select the item **“LOG”** on the service menu and press the **SET button**. The following screen is displayed.

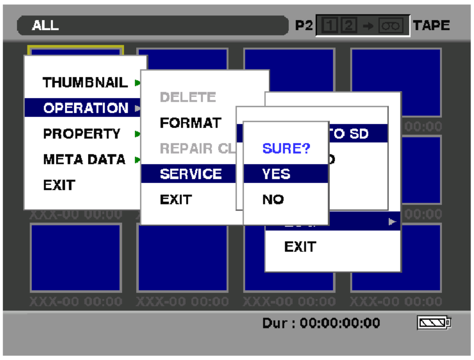

ALL
P2
TAPE
THUMBNAIL
OPERATION
PROPERTY
META DATA
EXIT
DELETE
FORMAT
REPAIR CLIP
SERVICE
EXIT
VERSION
SYSTEM INFO
DATA INIT
EXTERNAL
LOG
EXIT
Dur : 00:00:00:00


ALL
P2
TAPE
THUMBNAIL
OPERATION
PROPERTY
META DATA
EXIT
DELETE
FORMAT
REPAIR CL
SERVICE
EXIT
MEMORY TO SD
FILE TO SD
EXIT
LOG
EXIT
Dur : 00:00:00:00

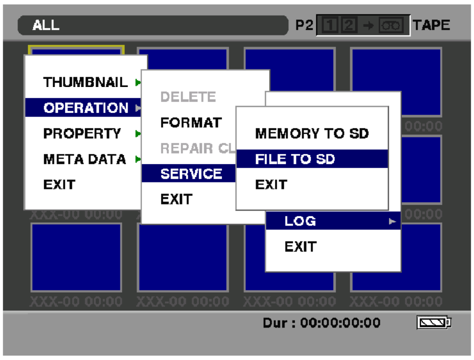
2. Select the item **“MEMORY TO SD”** or **“FILE TO SD”** on the menu and press the **SET button**. The confirmation menu of the execution is displayed.

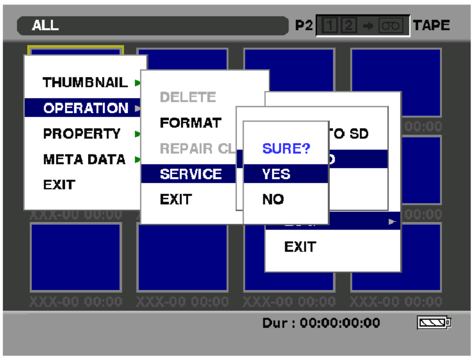
In case of select the “MEMORY TO SD”


ALL
P2
TAPE
THUMBNAIL
OPERATION
PROPERTY
META DATA
EXIT
DELETE
FORMAT
REPAIR CL
SERVICE
EXIT
MEMORY TO SD
FILE TO SD
EXIT
LOG
EXIT
Dur : 00:00:00:00


ALL
P2
TAPE
THUMBNAIL
OPERATION
PROPERTY
META DATA
EXIT
DELETE
FORMAT
REPAIR CL
SERVICE
EXIT
SURE?
YES
NO
EXIT
Dur : 00:00:00:00

In case of select the “FILE TO SD”


ALL
P2
TAPE
THUMBNAIL
OPERATION
PROPERTY
META DATA
EXIT
DELETE
FORMAT
REPAIR CL
SERVICE
EXIT
MEMORY TO SD
FILE TO SD
EXIT
LOG
EXIT
Dur : 00:00:00:00


ALL
P2
TAPE
THUMBNAIL
OPERATION
PROPERTY
META DATA
EXIT
DELETE
FORMAT
REPAIR CL
SERVICE
EXIT
SURE?
YES
NO
EXIT
Dur : 00:00:00:00

3. Select the item **“YES”** and press **SET button**, the LOG data is written on the SD card.

NOTE: There is no problem even if the LOG data is written on the Service SD card.

10. Firmware update procedure

NOTE: (Only the MC model)
The thumbnail screen described in this item **“10. Firmware Update procedure”** is an English display. When **“CHINESE”** is selected by item **“LAUNGAGE”** of the OTHER FUNCTION screen (Setting menu), it becomes a Chinese display (The factory setting mode is **“CHINESE”**). Moreover, the screen shown by mark A, B, and C that has been described to the INF-32 page is only an English display.

10-1. MICROCOMPUTER / FPGA CHART

Board	Name	Ref No.	IC type	Manufacture	Version display	Remark
CAMERA	CAM MICON	IP504	FLASH	NEC	●	
	CAM ROM	IP500	EEPROM	ASAHI KASEI	●	
	CAM FPGA	IP100	FLASH	Lattice	●	TG FPGA
CODEC	SYS MICON	IP305	FLASH	TOSHIBA	●	
	SYS ROM	IP306	EEPROM	ASAHI KASEI	●	
	P2CS OS	IP202, IP203	FLASH	TOSHIBA	●	
	P2CS AP				●	
	SYS FPGA	IP706	FLASH	Xilinx	●	OSD FPGA
VTR	VCR MICON	IP1	FLASH	TOSHIBA	●	
	VCR ROM	IP2	EEPROM	ASAHI KASEI	●	

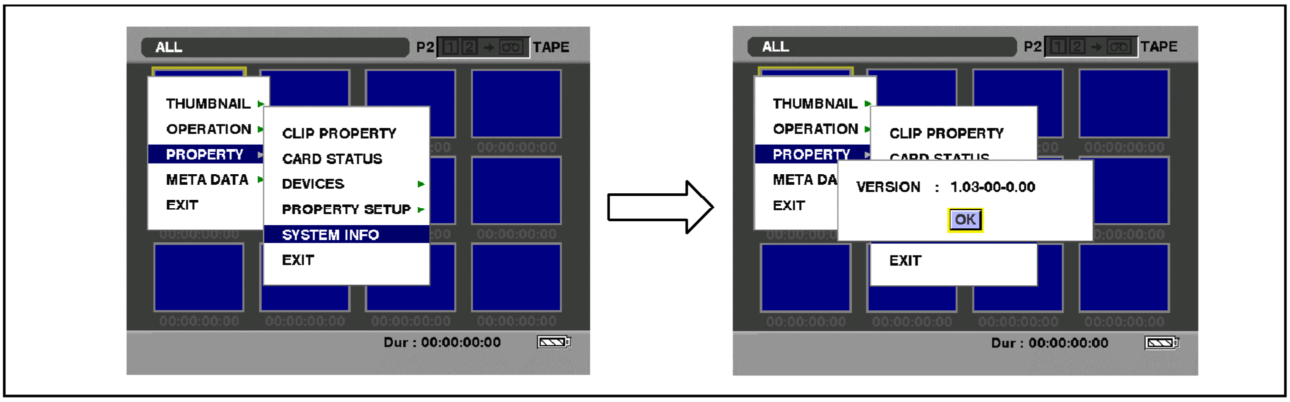
▨ : These are not required for update.

10-2. Version information

The firmware of AG-HVX200/202 is updated by the customer. Therefore, to facilitate the version information confirmation, the version number is given by combining SYS MICON, P2CS OS, and P2CS AP. In a word, SYS MICON, P2CS OS, and P2CS AP need not be individually updated.

Please confirm that the version number has been updated as follows, when you execute the update of the firmware.

1. This camera recorder is set to P2-MCR mode.
2. On the thumbnail screen, press **MUNU button** to display the menu.
3. Select the item **“PROPERTY”** on the menu and press the **SET button**.
4. Next, select the item **“SYSTEM INFO”** on the menu and press the **SET button** to display the version.



VERSION : 1.03-00-0.00

NOTE: The version number of SYS MICON, P2CS OS, and P2CS AP can be confirmed individually by the GUI service menu and the DIAGNOSTIC menu. Please refer to the content that has been described to the item **“9-3. VERSION”** and the item **“8-1-2. Software Version Display”** for the confirm method of the version.

SYSTEM INFO
1.02-00-0.00

SYS MICON	P2CS OS	P2CS AP
1.07-00-0.00	1.00-00-0.00	1.02-00-0.00

Version opened to the public to customer
It is possible to display by the user-mode.

Individual version of firmware
Only the service-mode can be displayed.

NOTE: **The confirmed version is only SYSTEM INFO after completing the update. The version of an individual firmware need not be confirmed.**

10-3. Update with the SD Card

NOTE: Please refer to the most recent execution outline, as the contents of this item “10-2. Update with the SD Card” may change.

CAUTION: Before Updating Software

- Do not power down or pull card while upgrading. If the program quits during loading, the data will be erased or part writing condition and the restart is not made. However software can not be update, please contact Panasonic Service Engineering.

10-3-1. General

1. Software version can be updated by using SD card. Update using SD card can be made with just file copy to a SD card.

10-3-2. Preparation

< Preparation for SD Card >

1. SD Card (more than 64MB memory card) are required.
2. Insert an SD card into the P2 camera or P2 deck and format SD card.

NOTE: You must format SD card with the P2 camera or P2 deck. SD card formatted by PC will not work without special software.

< Copy of Image data for update >

1. Download the file **“VVVSI*****.zip”** from Global Service Web Site.
2. Copy the file **“VVVSI*****.zip”** to hard disk of your PC and extract the file.
3. Insert a formatted SD card into the card slot of PC.
4. Copy the folder **“PRIVATE”** to SD card. The downloaded image data (upgrade file: **k230****.img**) is included in folder **“PRIVATE”**.

NOTE: Do not change the construction of folder and file name. The folder construction shown in the following and top of directory should be **“PRIVATE”**.

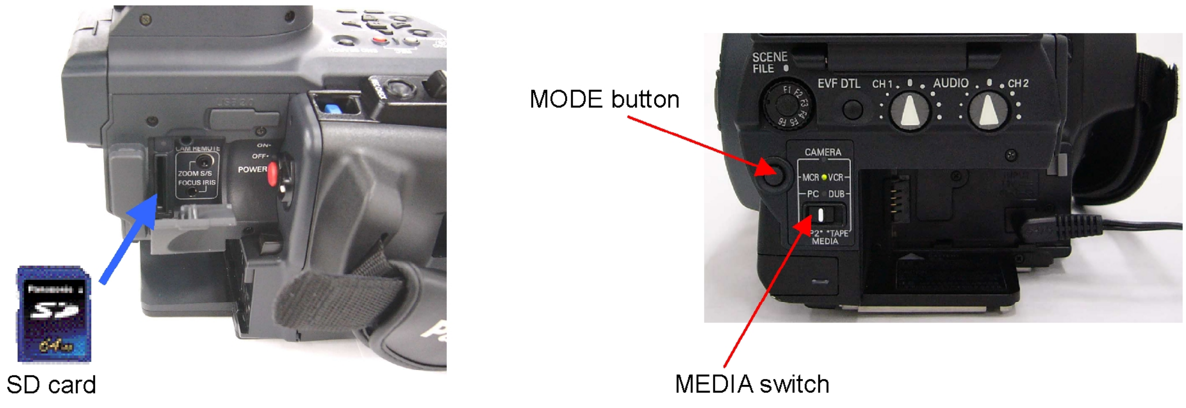
**Folder: PRIVATE \ MEIGROUP \ PAVCN \ SBG \ P2SD \ FW **
File Name: k230**.img**

< External Power >

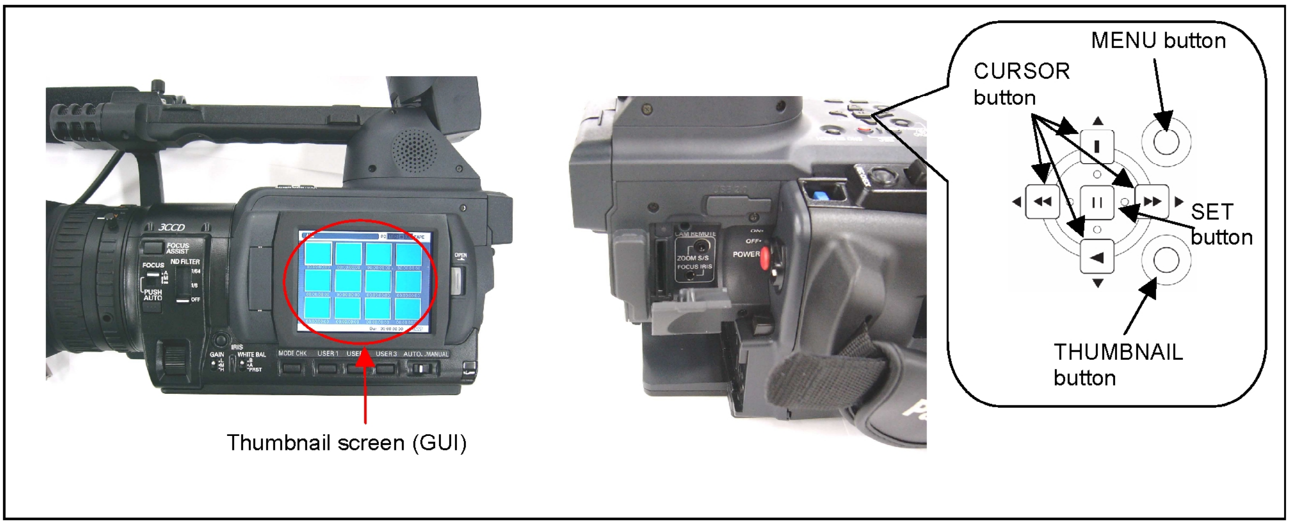
It is best to power the unit from the external power supply, this will prevent the unit from shutting off during upgrading.

10-3-3. Updated procedure

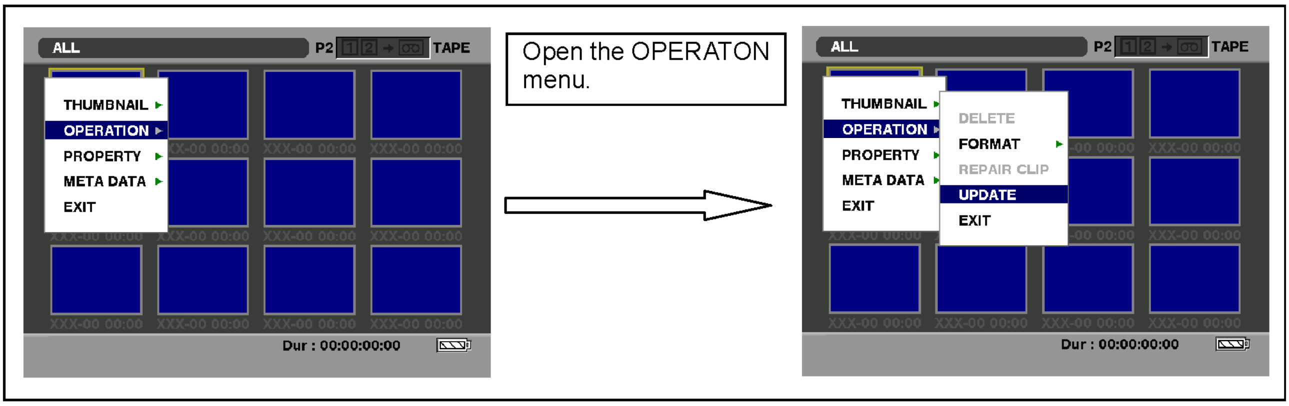
1. Insert a formatted SD card into the SD card insertion slot of this camera recorder.
2. Set the **MEDIA** switch to **“P2”** side and turn power on.



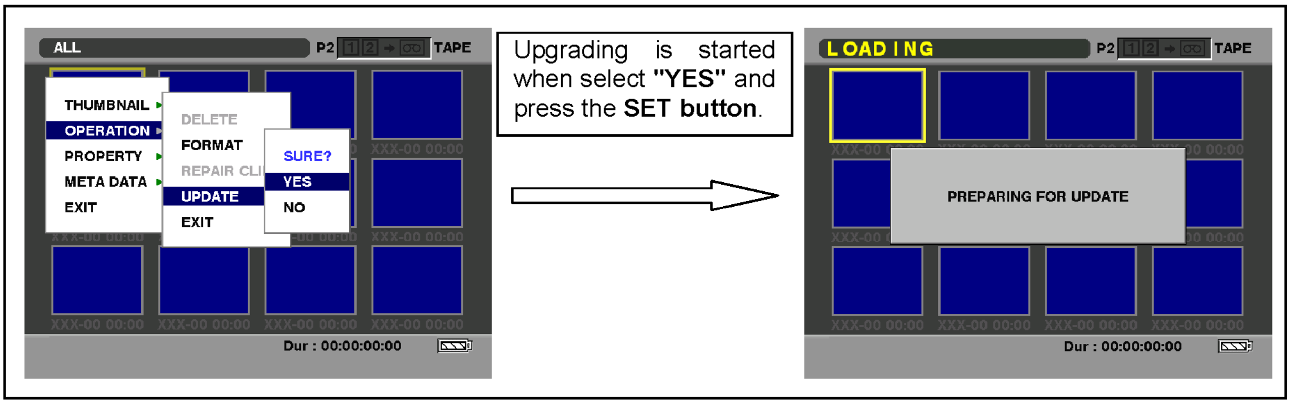
3. Press the **MODE button** to set to P2-MCR mode.


MENU button
CURSOR button
SET button
THUMBNAIL button
Thumbnail screen (GUI)

4. Press the **MENU button** to display the menu. Use the **CURSOR buttons** to select the item **“OPERATION”** and press **SET button** to open the OPERATION menu.


Open the OPERATON menu.
ALL
P2
TAPE
THUMBNAIL
OPERATION
PROPERTY
META DATA
EXIT
DELETE
FORMAT
REPAIR CLIP
UPDATE
EXIT
Dur : 00:00:00:00

5. Select the item **“UPDATE”** on the menu and press the **SET button** (If the update SD card does not insert into the unit, item **“UPDATE”** does not appeared.). The confirmation menu of the execution is displayed. If upgrade is executed, select the item **“YES”** and press **SET button**.
6. Update program is started and the message **“PREPARING FOR UPDATE”** appears on screen. In this timing, it is doing preparation such as the confirmation of the data of the updating.


Upgrading is started when select "YES" and press the **SET button**.

PREPARING FOR UPDATE
ALL
P2
TAPE
THUMBNAIL
OPERATION
PROPERTY
META DATA
EXIT
DELETE
FORMAT
REPAIR CLI
UPDATE
EXIT
SURE?
YES
NO
LOADING
Dur : 00:00:00:00

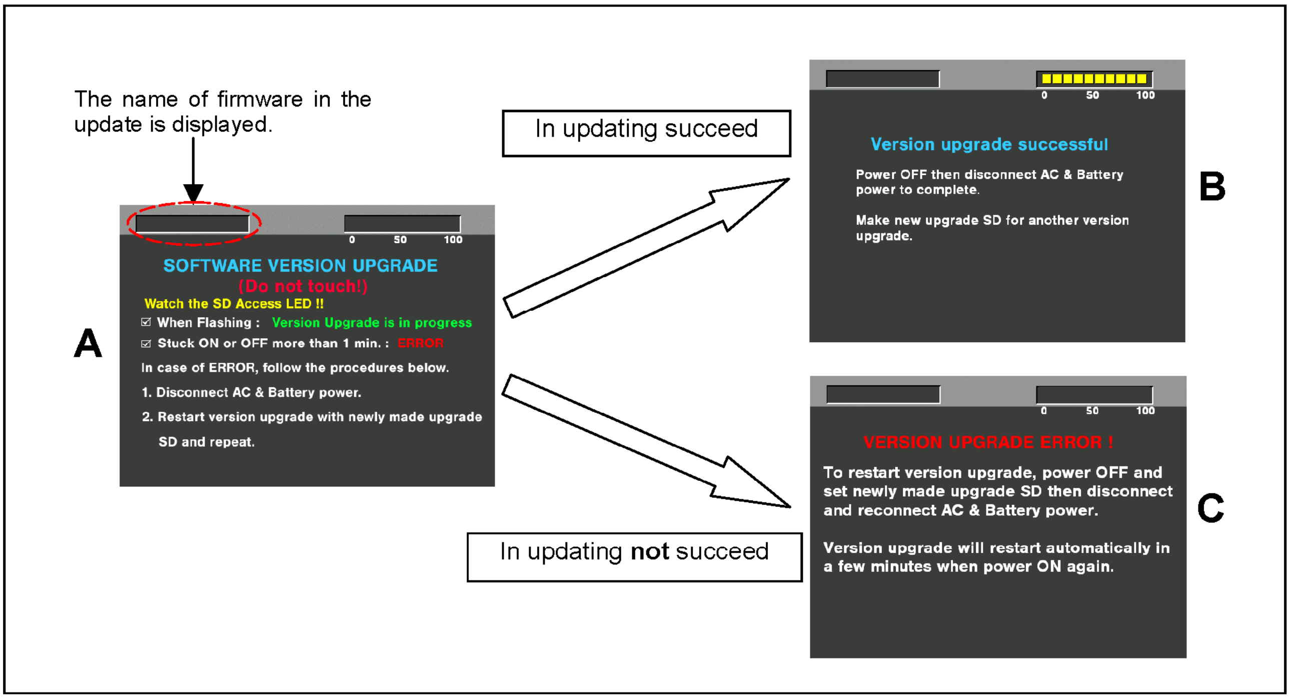
7. Following screen is displayed as indicate mark **“A”** while upgrading.

- ◆ Software update takes **approx. 10 min**.
- ◆ When starting the updating, the LED of SD Card slot is turned on. (Green LED)

8. In updating succeed, following screen is displayed as indicate mark **“B”**. Pull out the SD card and turn OFF and ON the unit in order to restart it.

NOTE:

- ◆ If the upgrade is not successful, an error message will appear on Display **“C”**.
- ◆ Although the screen is displayed as indicate mark **“A”** and the LED of SD Card slot is turned OFF for more than 5min, this status is NG.



SOFTWARE VERSION UPGRADE
(Do not touch!)
Watch the SD Access LED !!
☑ When Flashing : Version Upgrade is in progress
☑ Stuck ON or OFF more than 1 min. : ERROR
In case of ERROR, follow the procedures below.
1. Disconnect AC & Battery power.
2. Restart version upgrade with newly made upgrade SD and repeat.

Version upgrade successful

Power OFF then disconnect AC & Battery power to complete.

Make new upgrade SD for another version upgrade.

VERSION UPGRADE ERROR !

To restart version upgrade, power OFF and set newly made upgrade SD then disconnect and reconnect AC & Battery power.

Version upgrade will restart automatically in a few minutes when power ON again.

- ◆ If the power supply is shut down on the way to update or above error operation is performed, turn the power ON then restart the write function again. If software can not be update by SD card, please contact Panasonic Service Engineering.

9. Remove the SD card and turn the power of camcorder to OFF and the DC cable is plugged OUT/IN. Then turn the power of camcorder to ON to restart it. You must do this operation to change the data.

10. Confirm that the firmware version is updated follow the item **“10-2. Version information”**. (→ Page INF-29)

11. Information stored in EEPROM

Several information are stored in EEPROM. Please refer to following explanation, which data stored in EEPROM.

11-1. Setting menu data

●: Displayed
X: Not displayed
CAM: CAM EEPROM
VTR: VTR EEPROM
CODEC: CODEC EEPROM

11-1-1. SCENE FILE

ITEM	STORED IN	OPERATION MODE				
		P2		TAPE		DUB
		CAM	MCR	CAM	VCR	
OPERATION TYPE	CAM	●	X	●	X	X
FRAME RATE	CAM	●	X	X	X	X
SYNCRO SCAN	CAM	●	X	●	X	X
DETAIL LEVEL	CAM	●	X	●	X	X
V DETAIL LEVEL	CAM	●	X	●	X	X
DETAIL CORING	CAM	●	X	●	X	X
CHROMA LEVEL	CAM	●	X	●	X	X
CHROMA PHASE	CAM	●	X	●	X	X
COLOR TEMP	CAM	●	X	●	X	X
MASTER PED	CAM	●	X	●	X	X
A.IRIS LEVEL	CAM	●	X	●	X	X
NEWS GAMMA	CAM	●	X	●	X	X
GAMMA	CAM	●	X	●	X	X
KNEE	CAM	●	X	●	X	X
MATRIX	CAM	●	X	●	X	X
SKIN TONE DTL	CAM	●	X	●	X	X
V DETAIL FREQ	CAM	●	X	●	X	X
NAME EDIT	CODEC	●	X	●	X	X
SAVE/INT	-----	●	X	●	X	X

11-1-2. CAMERA SETUP

ITEM	STORED IN	OPERATION MODE				
		P2		TAPE		DUB
		CAM	MCR	CAM	VCR	
ASPECT CONV	CAM	●	X	●	X	X
SETUP(P2) ***P model only**	CAM	●	X	●	X	X
SETUP(TAPE) ***P model only**	CAM	●	X	●	X	X

11-1-3. SW MODE

ITEM	STORED IN	OPERATION MODE				
		P2		TAPE		DUB
		CAM	MCR	CAM	VCR	
MID GAIN	CAM	●	X	●	X	X
HIGH GAIN	CAM	●	X	●	X	X
ATW	CAM	●	X	●	X	X
HANDLE ZOOM	CAM	●	X	●	X	X
IRIS DIAL	CAM	●	X	●	X	X
USER1	CAM	●	X	●	X	X
USER2	CAM	●	X	●	X	X
USER3	CAM	●	X	●	X	X

11-1-4. AUTO SW

ITEM	STORED IN	OPERATION MODE				
		P2		TAPE		DUB
		CAM	MCR	CAM	VCR	
A.IRIS	CAM	●	X	●	X	X
AGC	CAM	●	X	●	X	X
ATW	CAM	●	X	●	X	X
AF	CAM	●	X	●	X	X

11-1-5. RECORDING SETUP

ITEM	STORED IN	OPERATION MODE				
		P2		TAPE		DUB
		CAM	MCR	CAM	VCR	
REC FORMAT(P2)	CODEC	●	X	X	X	X
REC FORMAT(TAPE)	CODEC	X	X	●	X	X
REC MODE	CODEC	●	X	X	X	X
REC FUNCTION	-----	●	X	X	X	X
ONE-SHOT TIME	CODEC	●	X	X	X	X
INTERVAL TIME	CODEC	●	X	X	X	X
PREREC MODE	CODEC	●	X	X	X	X
REC SPEED	CODEC	X	X	●	●	●
AUDIO REC	CODEC	X	X	●	●	X
MIC ALC	CODEC	●	X	●	X	X
MIC GAIN 1	CODEC	●	X	●	X	X
MIC GAIN 2	CODEC	●	X	●	X	X
25M REC CH SEL	CODEC	●	X	X	X	X
TC MODE	CODEC	●	●	●	●	●
TCG	CODEC	●	●	●	●	●
FIRST REC TC	CODEC	X	X	●	●	●
TC PRESET	CODEC	●	●	●	●	●
UB MODE	CODEC	●	●	●	●	●
UB PRESET	CODEC	●	●	●	●	●
1394 TC REGEN	CODEC	X	●	X	●	X
1394 UB REGEN	CODEC	X	●	X	●	X
1394 IN PRESET	CODEC	X	●	X	●	X

11-1-6. PLAYBACK FUNCTIONS

ITEM	STORED IN	OPERATION MODE				
		P2		TAPE		DUB
		CAM	MCR	CAM	VCR	
32K AUDIO	CODEC	X	X	X	●	X
AUDIO OUT(P2)	CODEC	X	●	X	X	X
AUDIO OUT(TAPE)	CODEC	X	X	X	●	X

11-1-7. AV IN/OUT SETUP

ITEM	STORED IN	OPERATION MODE				
		P2		TAPE		DUB
		CAM	MCR	CAM	VCR	
CMPNT OUT SEL	CAM	●	●	X	X	X
HP MODE	CODEC	●	X	●	X	X
A. DUB INPUT	CODEC	X	X	X	●	X
1394 OUT	CODEC	X	X	X	●	X

11-1-8. DISPLAY SETUP

ITEM	STORED IN	OPERATION MODE				
		P2		TAPE		DUB
		CAM	MCR	CAM	VCR	
ZEBRA DETECT 1	CAM	●	X	●	X	X
ZEBRA DETECT 2	CAM	●	X	●	X	X
MARKER	CODEC	●	X	●	X	X
SAFETY ZONE	CAM	●	X	●	X	X
VIDEO OUT OSD	CAM	●	●	●	●	X
DATE/TIME	CODEC	●	●	●	●	X
LEVEL METER	CODEC	●	●	●	●	X
ZOOM FOCUS	CAM	●	X	●	X	X
CARD/TAPE BATT	CODEC	●	●	●	●	X
OTHER DISPLAY	CODEC	●	●	●	●	X
CAMERA DATA	CODEC	X	●	X	●	X
LCD BACKLIGHT	CAM	●	●	●	●	X
LCD SET	CAM	●	●	●	●	X
EVF SET	CAM	●	●	●	●	X
SELF SHOOT	CAM	●	X	●	X	X
EVF MODE	CAM	●	●	●	●	X
DISPLAY ASPECT	CAM	●	●	●	●	X
EVF COLOR	CAM	●	●	●	●	X

11-1-9. CARD FUNCTIONS

ITEM	STORED IN	OPERATION MODE				
		P2		TAPE		DUB
		CAM	MCR	CAM	VCR	
SCENE FILE	-----	●	X	X	X	X
USER FILE	-----	●	X	X	X	X
SD CARD FORMAT	-----	●	X	X	X	X

11-1-10. OTHER FUNCTIONS

ITEM	STORED IN	OPERATION MODE				
		P2		TAPE		DUB
		CAM	MCR	CAM	VCR	
REMOTE	CODEC	●	●	●	●	X
1394 CONTROL	CODEC	●	X	●	X	X
1394 CMD SEL	CODEC	●	X	●	X	X
END SEARCH	CODEC	X	X	●	●	X
PC MODE	CODEC	●	●	X	X	X
REC LAMP	CODEC	●	X	●	X	X
ACCESS LED	CODEC	●	●	X	X	X
BEEP SOUND	CODEC	●	X	●	X	X
CLOCK SET	CODEC	●	●	●	●	X
TIME ZONE	CODEC	●	●	●	●	X
POWER SAVE	CODEC	●	X	●	X	X
USER FILE	-----	●	●	●	●	X
HOUR METER	VTR	X	X	●	●	X

11-1-11. OPTION MENU

ITEM	STORED IN	OPERATION MODE				
		P2		TAPE		DUB
		CAM	MCR	CAM	VCR	
1394 STATUS	-----	●	●	●	●	X
1394 CONFIG	CODEC	●	●	X	X	X

11-1-12. DUBBING SETUP

ITEM	STORED IN	OPERATION MODE				
		P2		TAPE		DUB
		CAM	MCR	CAM	VCR	
FORMAT SEL	-----	X	X	X	X	●
PULLDOWN SEL ***P model only**	CODEC	X	X	X	X	●
SETUP(TAPE) ***P model only**	CAM	X	X	X	X	●

11-2. Service menu data

●: Displayed
X: Not displayed
CAM: CAM EEPROM
VTR: VTR EEPROM
CODEC: CODEC EEPROM

11-2-1. DIAGNOSTIC MENU

ITEM	STORED IN	OPERATION MODE				
		P2		TAPE		DUB
		CAM	MCR	CAM	VCR	
BER DISPLAY	-----	X	X	X	●	X
SAMPLE SPEED	-----	X	X	X	●	X
SOFT VERSION	-----	●	X	●	X	X
EEPROM VERSION	-----	●	●	●	●	X
CYLINDER	VTR	X	X	●	●	X
TAPE RUN	VTR	X	X	●	●	X
THREADING	VTR	X	X	●	●	X
1394 DIAG	-----	●	●	●	●	X
1394 UID	P2: CODEC SBP2: CODEC TAPE: VTR	●	●	●	●	X

11-2-2. ADJUST MENU

ITEM	STORED IN	OPERATION MODE				
		P2		TAPE		DUB
		CAM	MCR	CAM	VCR	
ATF GAIN	-----	X	X	X	●	X
LINEARITY	-----	X	X	X	●	X
AUDIO FILTER	-----	●	●	●	●	X
Y LEVEL	CAM	●	●	●	●	X
C LEVEL	CAM	●	●	●	●	X
CMPNT Y LEVEL	CAM	●	●	●	●	X
CMPNT PB LEVEL	CAM	●	●	●	●	X
CMPNT PR LEVEL	CAM	●	●	●	●	X
DEFECT COMP	-----	●	X	●	X	X
DEBUG DISP	-----	●	●	●	●	X
DEBUG MODE	-----	●	●	●	●	
LCD OFFSET	CAM	●	●	●	●	X
EVF OFFSET	CAM	●	●	●	●	X
1394 GAP COUNT	CODEC	●	●	X	X	X

11-3. The other data

Except setting and service menu data, below indicated information are stored in EEPROM.

EEPROM	INFORMATION	REMARK
CAMERA	CAMERA adjustment value	Adjustment values are set by EVR software. **NOTE:** The values of the each video level adjustment can be set even by the ADJUST menu.
	Control data	------------------
VTR	VTR adjustment Value	Adjustment values are set by EVR software.
	TAPE Time code data	------------------
	Control data	------------------
	Shipment Destination data	------------------
CODEC	P2 Time code data	------------------
	Control data	------------------
	Shipment Destination data	------------------

NOTE1: Serial number is stored in the SYS MICON on CODEC board.
NOTE2: LOG data are stored in the SH4 MICON on CODEC board.

12. PC EVR software

12-1. Required tools and equipment for PC EVR software

When the PC EVR software is used, the following tools are required.

NAME	Part Number	Pcs.	Remark
PC EVR software	VVS0030	1	Download from the Global Service WEB site.
Measuring board	VFK1988	1	
Extension cable	VFK1989	1	
DC cable	K2GJ2DC00002 or VJA1128	2	For AG-HVX200/202 and Measuring board
AC Adapter	---	2	For AG-HVX200/202 and Measuring board
9pin RS232C cross cable	---	1	
Personal Computer	---	1	***NOTE:**

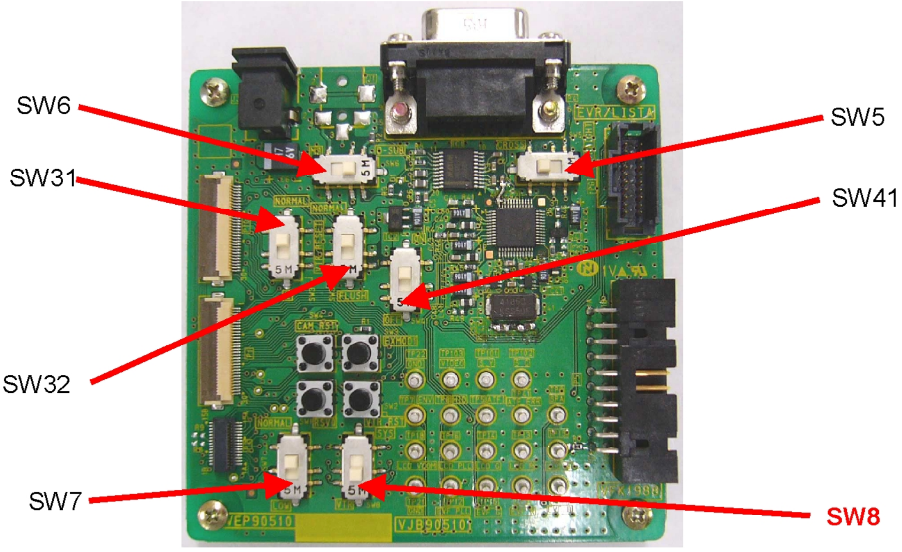
***OS: WINDOWS XP SP2**

12-2. Connection

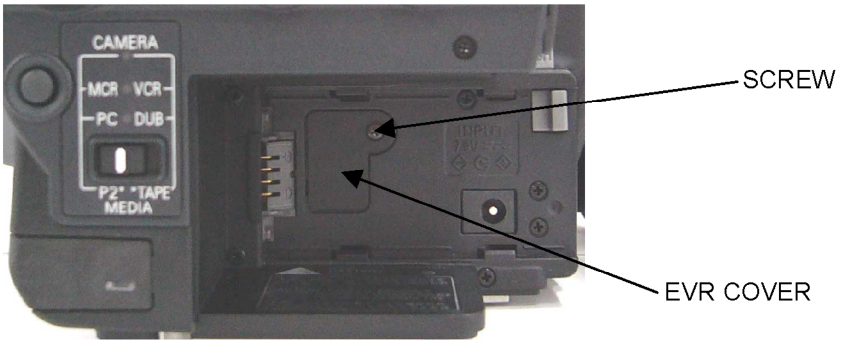
1. Unless otherwise specified, set the switches on the Measuring Board as shown in the table below.

NAME	SETTING POSITION
SW5	CROSS
SW6	D-SUB
SW7	NORMAL
SW8	***NOTE**
SW31	NORMAL
SW32	NORMAL
SW41	ON

***NOTE:** SW8 is VTR/SYS selection switch. When data read or write in the CAMERA/CODEC board, it sets it to the SYS side. When data read or write in VTR board, it sets it to VTR side.

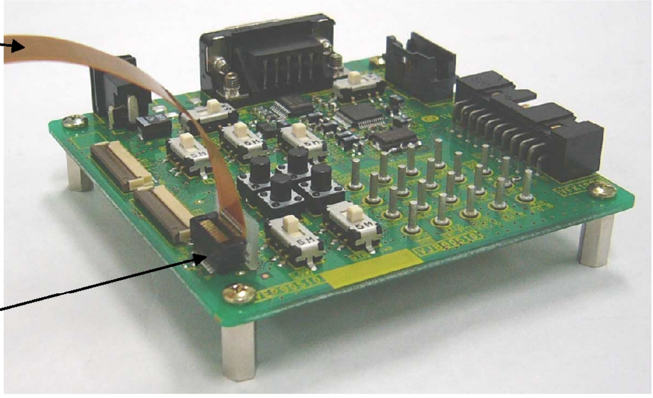


2. Loosen the screw and remove the EVR cover.


SCREW
EVR COVER
CAMERA
MCR
VCR
PC
DUB
P2*
*TAPE
MEDIA

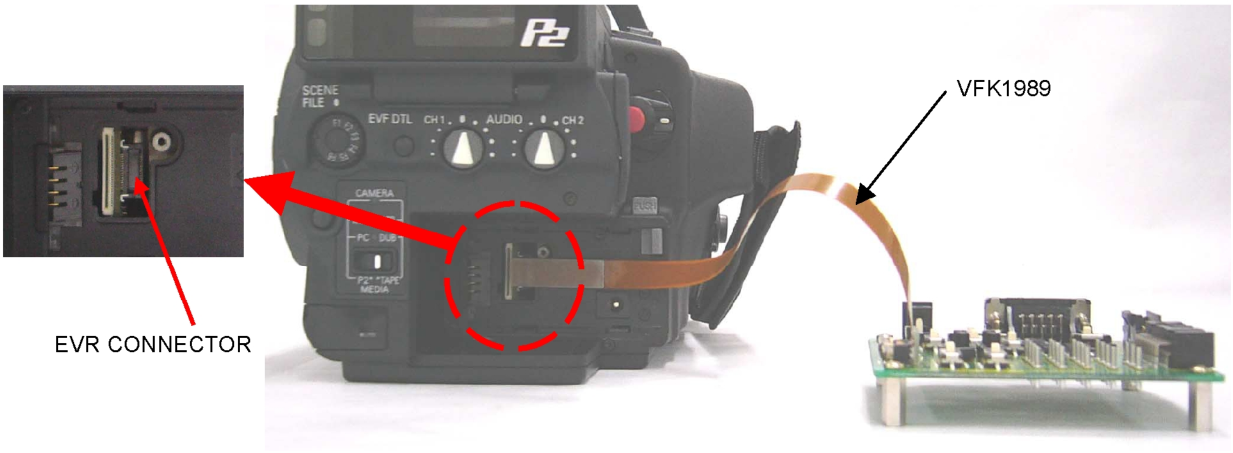
3. Connect the Extension Cable (VFK1989) to connector P2 on Measuring Board (VFK1988)

Connect VFK1989 with connector P2 as shown in picture.
The unit will not work if the connector is attached backwards.

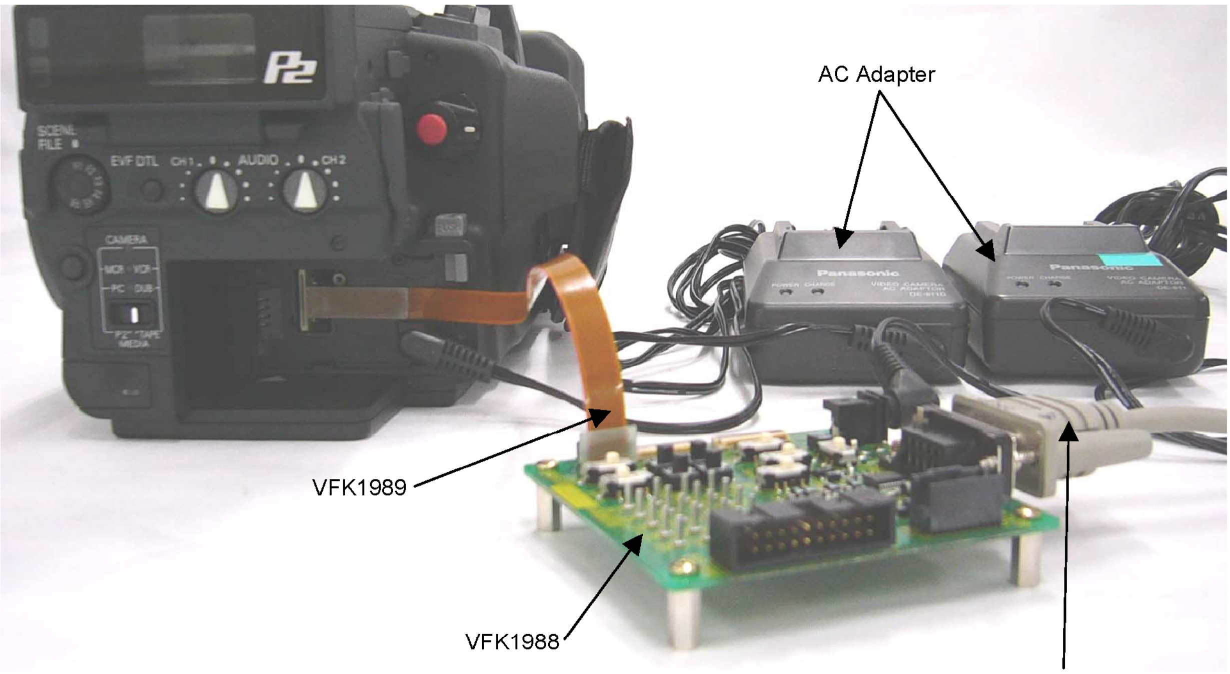


4. Connect the Extension Cable (VFK1989) to EVR connector in Unit. Then make sure that the direction of the VFK1989 is correct as shown in Figure.

When the VFK1989 is connected to EVR connector, be careful of the direction of connector on VFK1989. Please follow as shown in the figure.

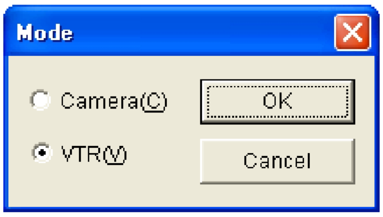

VFK1989
EVR CONNECTOR
P2
SCENE FILE
EVF DTL
CH1
AUDIO
CH2
CAMERA
PC
DUB
P2*
*TAPE
MEDIA

5. Supply DC6V-9V to the Measuring Board (VFK1988). Please use the DC cable and AC Adapter to supply DC voltage to Measuring Board.
6. Connect a 9 pin RS-232C cross cable between the Measuring Board and RS-232C connector on Personal Computer as shown in Figure.

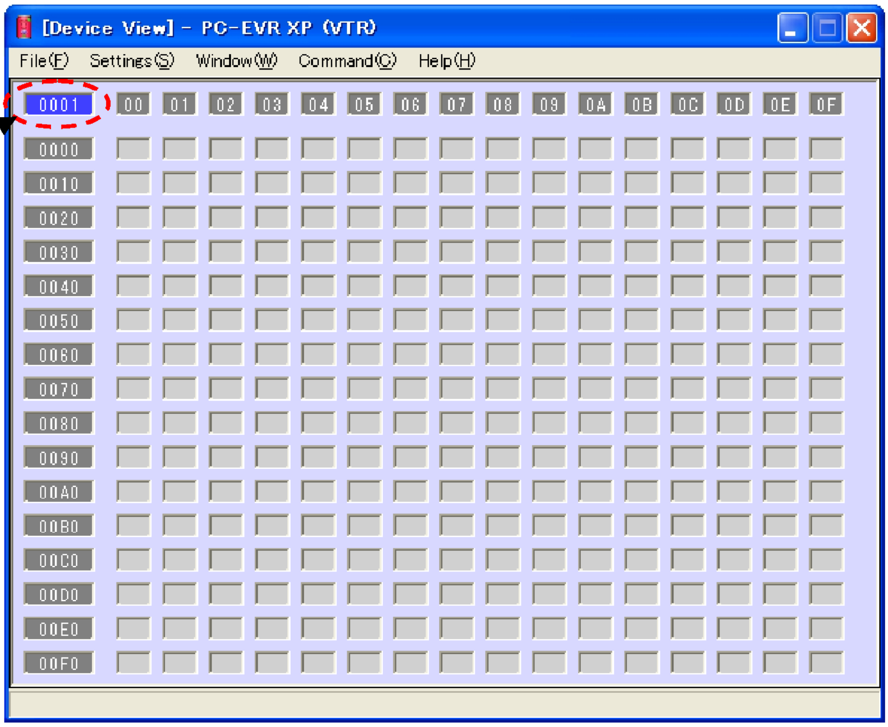

AC Adapter
VFK1989
VFK1988
RS232C cross cable
This cable connect to
serial port of PC.

12-3. Setup of PC EVR software

1. Copy all files of the PC EVR software **(VVS0030)** for AG-HVX200/202 series to the PC.
2. Supply power to the Camera-Recorder and turn power ON.
3. Start up the PC EVR software by double-clicking **"VVS0030.exe"**. When communication between the PC and the Camera-Recorder has been succeeded, the following screen will appear.


Mode
○ Camera(C)
● VTR(V)
OK
Cancel

4. Select the mode and click **"OK"** button. The following screen will appear and blue is displayed to the status lamp.


[Device View] - PC-EVR XP (VTR)
File(F) Settings(S) Window(W) Command(C) Help(H)
0001
00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
0000
0010
0020
0030
0040
0050
0060
0070
0080
0090
00A0
00B0
00C0
00D0
00E0
00F0

STATUS LAMP

VTR mode screen

5. The communication status between the PC and the Camera-Recorder can be confirmed with the status lamp as following color.

Not Connected : black
Connected : blue
Reading : green
Writing : red

13. Save and write EEPROM data

< PREPARATION >

When EEPROM data save and write, the PC EVR software is used. Please connect the tools and set up the PC EVR software follow the item **“12. PC EVR software”**. (→ Page INF-38)

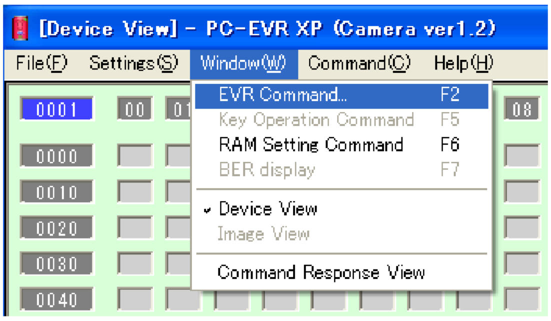
13-1. Save data of EEPROM data of Camera-Recorder to PC

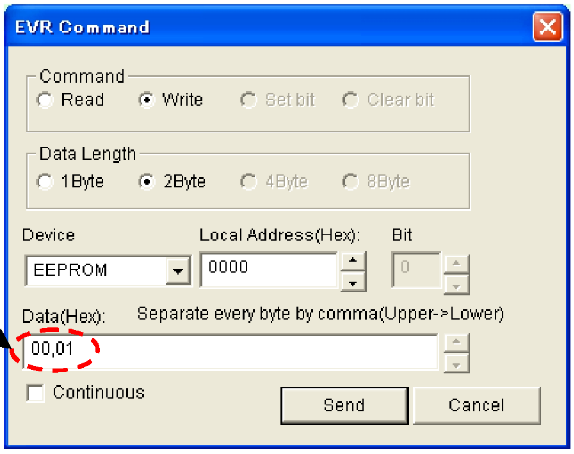
13-1-1. Save data of Camera-EEPROM

There is 64K of CAMERA EEPROM of this unit. It is necessary to make a file by the latter half and first half part, because this EVR software can be saved at a time only 32K.

NOTE: Please save data in order of latter half part → first half part.

1. Set **SW8** on the measuring board to **“SYS”** side.
2. This camera recorder is set to **P2-CAMERA** mode.
3. Select **“Camera(C)”** mode after start up the PC EVR software, and click **“OK”** button.
4. Select **“EVR Command”** in **“File(F)”** menu and set each item on EVR Command screen as follows.

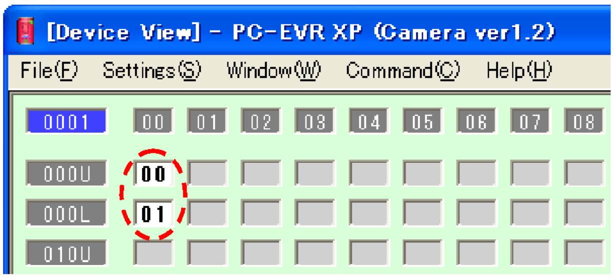

[Device View] - PC-EVR XP (Camera ver1.2)
File(F) Settings(S) Window(W) Command(C) Help(H)
EVR Command... F2
Key Operation Command F5
RAM Setting Command F6
BER display F7
Device View
Image View
Command Response View
0001
00
01
08
0000
0010
0020
0030
0040


EVR Command
Command
Read
Write
Set bit
Clear bit
Data Length
1Byte
2Byte
4Byte
8Byte
Device
Local Address(Hex):
Bit
EEPROM
0000
0
Data(Hex):
Separate every byte by comma(Upper->Lower)
00,01
Continuous
Send
Cancel

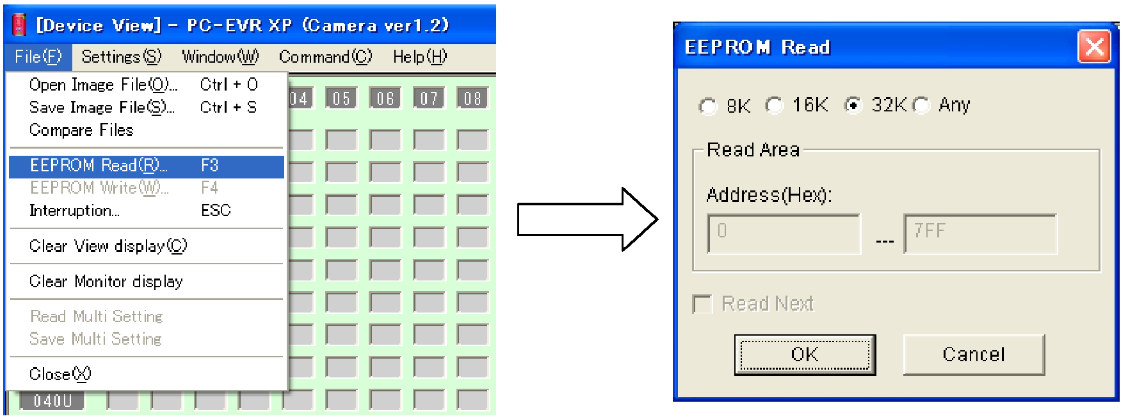
It is input as 00,01
(Setting to latter half)

Command	Write
Data Length	2Byte
Device	EEPROM
Local Address(Hex)	0000
Data(Hex)	00,01

5. Confirm that the data of 0000UPPER address is **“00”** and LOWER address is displayed as **“01”**.


[Device View] - PC-EVR XP (Camera ver1.2)
File(F) Settings(S) Window(W) Command(C) Help(H)
0001
00
01
02
03
04
05
06
07
08
000U
00
000L
01
010U

6. Select **"EEPROM Read(R)"** in **"File(F)"** menu and select **"32K"** on EEPROM Read screen.


[Device View] - PC-EVR XP (Camera ver1.2)
File(F) Settings(S) Window(W) Command(C) Help(H)
Open Image File(O)... Ctrl + O
Save Image File(S)... Ctrl + S
Compare Files
EEPROM Read(R)... F3
EEPROM Write(W)... F4
Interruption... ESC
Clear View display(C)
Clear Monitor display
Read Multi Setting
Save Multi Setting
Close(X)
04 05 06 07 08
0400
EEPROM Read
OK
Cancel

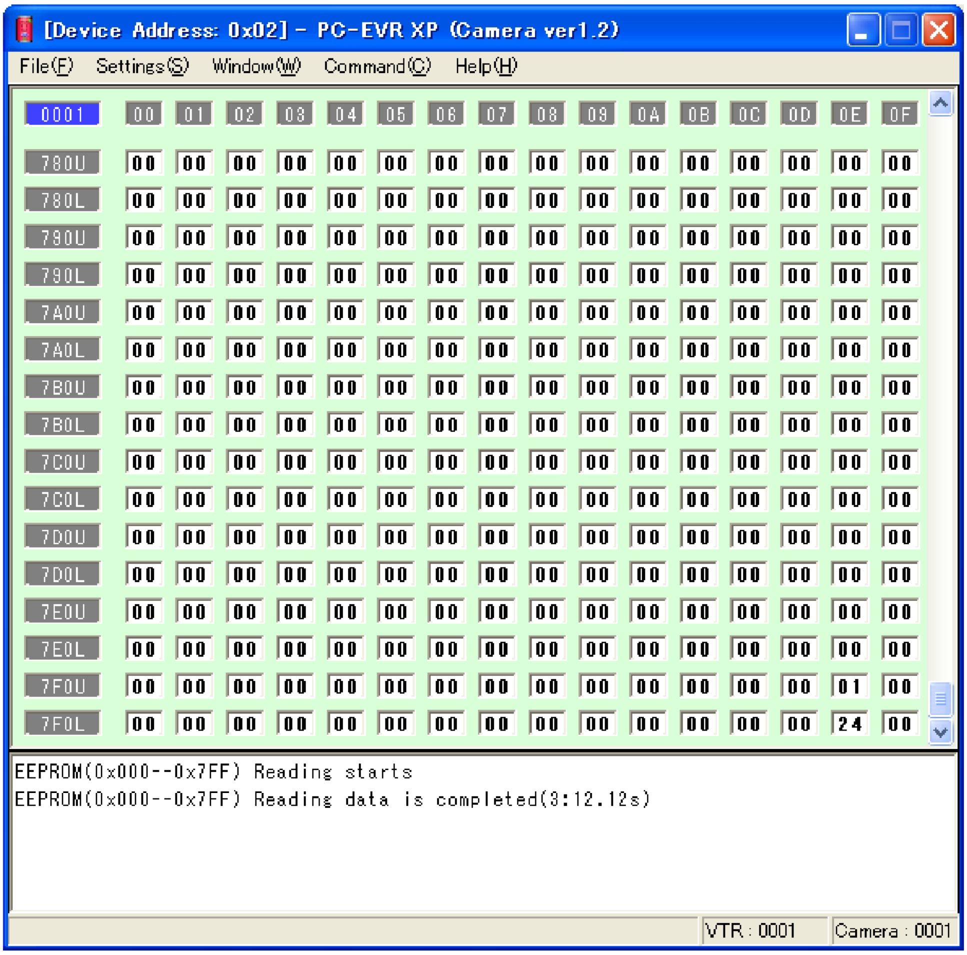
○ 8K ○ 16K ● 32K ○ Any

Read Area

Address(Hex): 0 --- 7FF

☐ Read Next

7. Click **"OK"** button and reading starts.
8. Green is displayed to the status lamp while reading it. When writing is completed, the status lamp changes into a blue display and a message of the **"reading is completed"** will appear on screen.

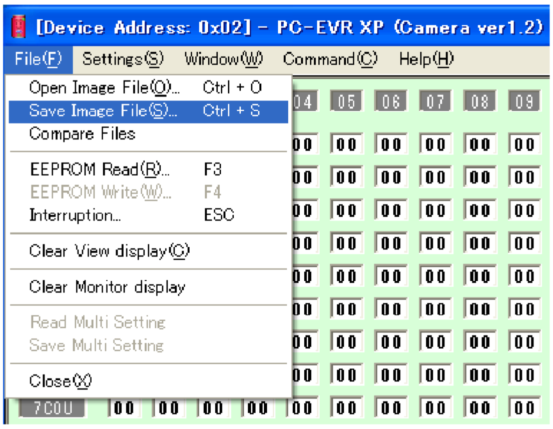

[Device Address: 0x02] - PC-EVR XP (Camera ver1.2)
File(F) Settings(S) Window(W) Command(C) Help(H)

```
0001  00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
780U  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
780L  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
790U  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
790L  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
7A0U  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
7A0L  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
7B0U  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
7B0L  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
7C0U  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
7C0L  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
7D0U  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
7D0L  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
7E0U  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
7E0L  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
7F0U  00 00 00 00 00 00 00 00 00 00 00 00 00 00 01 00
7F0L  00 00 00 00 00 00 00 00 00 00 00 00 00 00 24 00
```

```
EEPROM(0x000--0x7FF) Reading starts
EEPROM(0x000--0x7FF) Reading data is completed(3:12.12s)
```

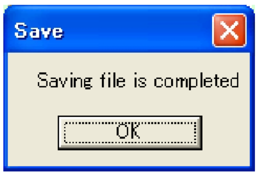
VTR : 0001 Camera : 0001

9. Select **“Save Image File(S)”** in **“File(F)”** menu.


[Device Address: 0x02] - PC-EVR XP (Camera ver1.2)
File(F)
Settings(S)
Window(W)
Command(C)
Help(H)
Open Image File(O)... Ctrl + O
Save Image File(S)... Ctrl + S
Compare Files
EEPROM Read(R)... F3
EEPROM Write(W)... F4
Interruption... ESC
Clear View display(C)
Clear Monitor display
Read Multi Setting
Save Multi Setting
Close(X)

10. The file name is input, and the place that saves a file is specified. The following message is displayed when saving a file.

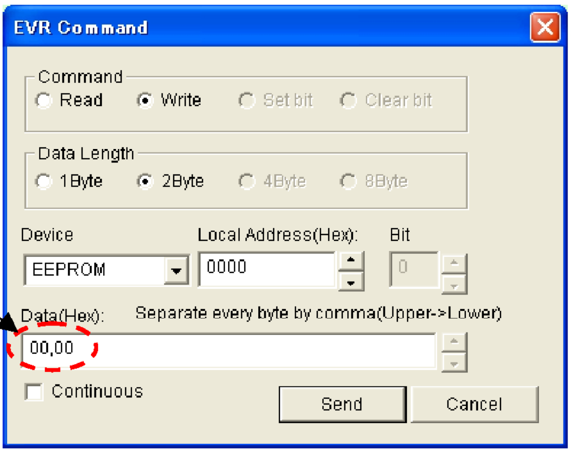
NOTE: Please make it to the file name to be able to distinguish the latter half part.



Saving file is completed

11. Next, the data of the first half part is saved. Select **“EVR Command”** in **“File(F)”** menu and set each item on EVR Command screen as follows.

It is input as 00,00
(Setting to first half)


EVR Command

Command: ○ Read ● Write ○ Set bit ○ Clear bit

Data Length: ○ 1Byte ● 2Byte ○ 4Byte ○ 8Byte

Device: EEPROM

Local Address(Hex): 0000

Bit: 0

Data(Hex): 00,00

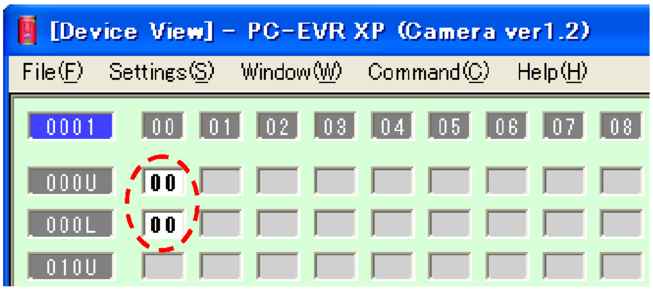
Separate every byte by comma(Upper->Lower)

☐ Continuous

Send
Cancel

Command	Write
Data Length	2Byte
Device	EEPROM
Local Address(Hex)	0000
Data(Hex)	00,00

12. Click **“Send”** button and confirm that the data of 0000UPPER and LOWER address is displayed as **“00”**.

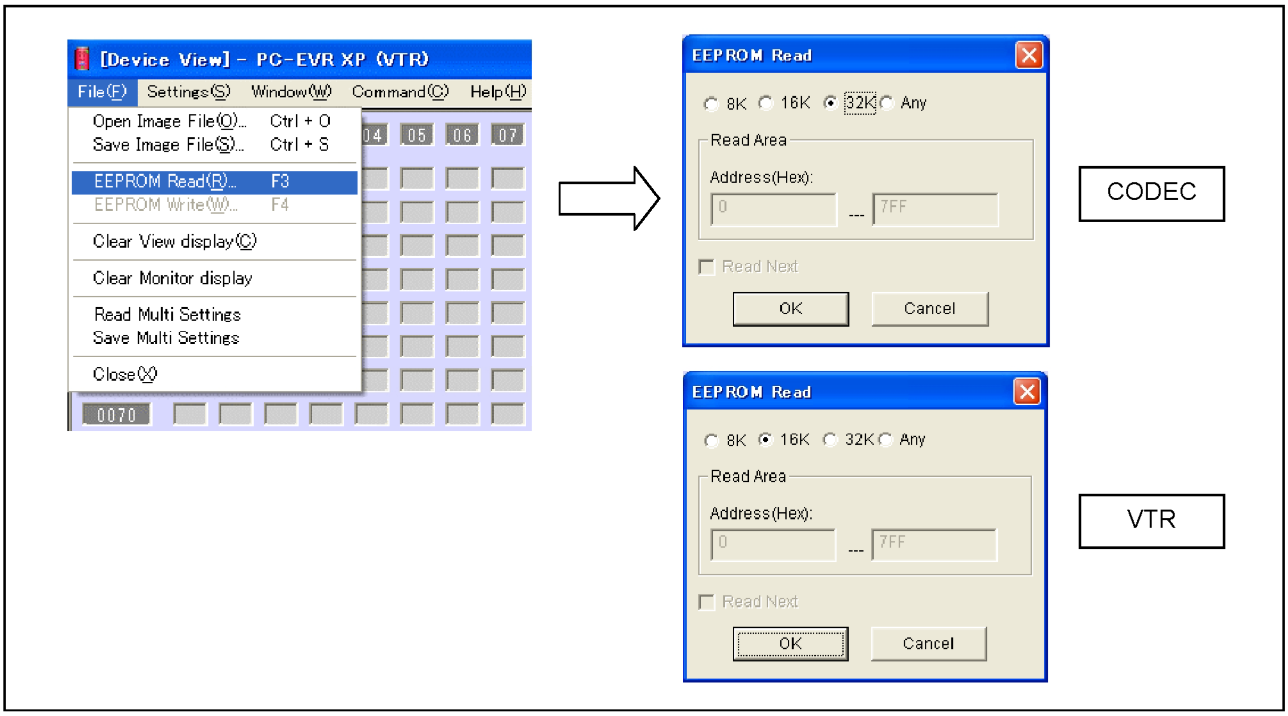

[Device View] - PC-EVR XP (Camera ver1.2)
File(F)
Settings(S)
Window(W)
Command(C)
Help(H)

0001	00	01	02	03	04	05	06	07	08
000U	00								
000L	00								
010U									

13. Save the data of first half part follow the step 6 to 10 (When you specify the saved file name, please make it to the file name to be able to distinguish the first half part.).

13-1-2. Save data of CODEC and VTR-EEPROM

1. Set **SW8** on the measuring board to **“SYS”** side (For CODEC).
1. Set **SW8** on the measuring board to **“VTR”** side (For VTR).
2. This camera recorder is set to **P2-CAMERA** mode (For CODEC).
2. This camera recorder is set to **TAPE-CAMERA** mode (For VTR).
3. Select **“VTR(V)”** mode after start up the PC EVR software, and click **“OK”** button.
4. Select **“EEPROM Read(R)”** in **“File(F)”** menu. **“32K”** is selected for CODEC, **“16K”** is selected for VTR on EEPROM Read screen.


[Device View] - PC-EVR XP (VTR)
File(F) Settings(S) Window(W) Command(C) Help(H)
Open Image File(O)... Ctrl + O
Save Image File(S)... Ctrl + S
EEPROM Read(R)... F3
EEPROM Write(W)... F4
Clear View display(C)
Clear Monitor display
Read Multi Settings
Save Multi Settings
Close(X)
04 05 06 07
0070
EEPROM Read
OK
Cancel
EEPROM Read
OK
Cancel

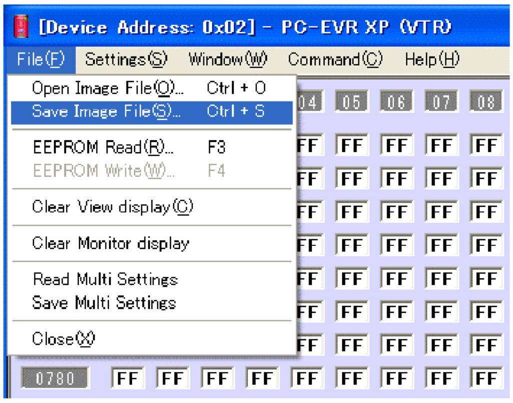
○ 8K ○ 16K ● 32K ○ Any
Read Area
Address(Hex): 0 --- 7FF
☐ Read Next

CODEC

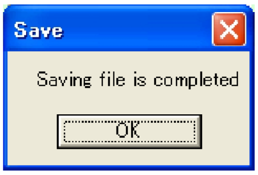
○ 8K ● 16K ○ 32K ○ Any
Read Area
Address(Hex): 0 --- 7FF
☐ Read Next

VTR

5. Click **“OK”** button and reading starts.
6. Green is displayed to the status lamp while reading it. When reading is completed, the status lamp changes into a blue display.
7. Select **“Save Image File(S)”** in **“File(F)”** menu.


[Device Address: 0x02] - PC-EVR XP (VTR)
File(F) Settings(S) Window(W) Command(C) Help(H)
Open Image File(O)... Ctrl + O
Save Image File(S)... Ctrl + S
EEPROM Read(R)... F3
EEPROM Write(W)... F4
Clear View display(C)
Clear Monitor display
Read Multi Settings
Save Multi Settings
Close(X)
04 05 06 07 08
0780
FF

8. The file name is input, and the place that saves a file is specified. The following message is displayed when saving a file.



Saving file is completed

13-2. Write EEPROM data from PC to Camera-Recorder

You can return the Camera-Recorder to the condition before board exchanged by writing EEPROM data to new board, which has been saved before board exchanged.

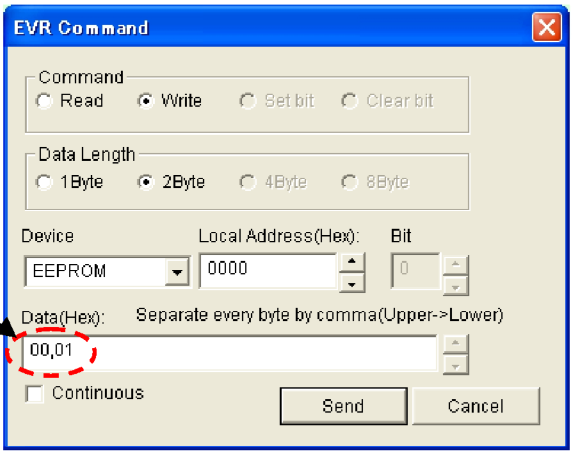
13-2-1. Write data of Camera-EEPROM

There is 64K of CAMERA EEPROM of this unit. It is necessary to write two files as the latter half and first half part, because this EVR software can be written at a time only 32K.

NOTE: Please write data in order of latter half part → first half part.

1. Set **SW8** on the measuring board to **“SYS”** side.
2. This camera recorder is set to **P2-CAMERA** mode.
3. Select **“Camera(C)”** mode after start up the PC EVR software, and click **“OK”** button.
4. Select **“EVR Command”** in **“File(F)”** menu and set each item on EVR Command screen as follows.

It is input as 00,01.
(Setting to latter half)



Command: ○ Read ● Write ○ Set bit ○ Clear bit

Data Length: ○ 1Byte ● 2Byte ○ 4Byte ○ 8Byte

Device: EEPROM

Local Address(Hex): 0000

Bit: 0

Data(Hex): 00,01

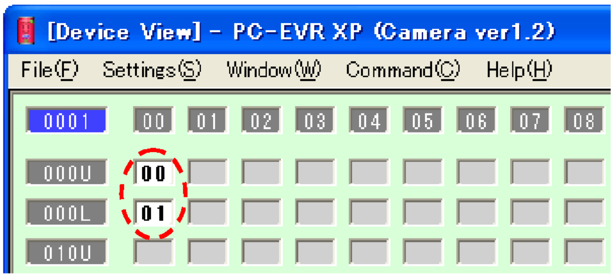
Separate every byte by comma(Upper->Lower)

☐ Continuous

EVR Command
Send
Cancel

Command	Write
Data Length	2Byte
Device	EEPROM
Local Address(Hex)	0000
Data(Hex)	00,01

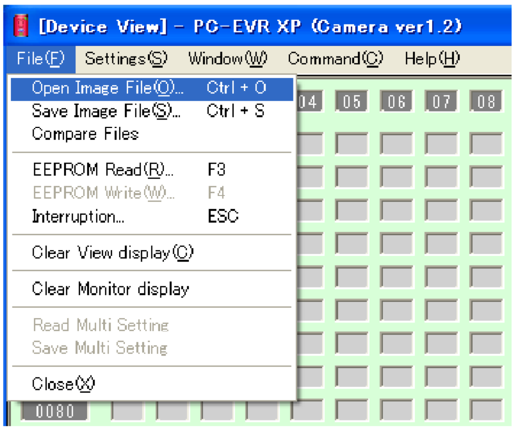
5. Confirm that the data of 0000UPPER address is **“00”** and LOWER address is displayed as **“01”**.



[Device View] - PC-EVR XP (Camera ver1.2)
File(F)
Settings(S)
Window(W)
Command(C)
Help(H)

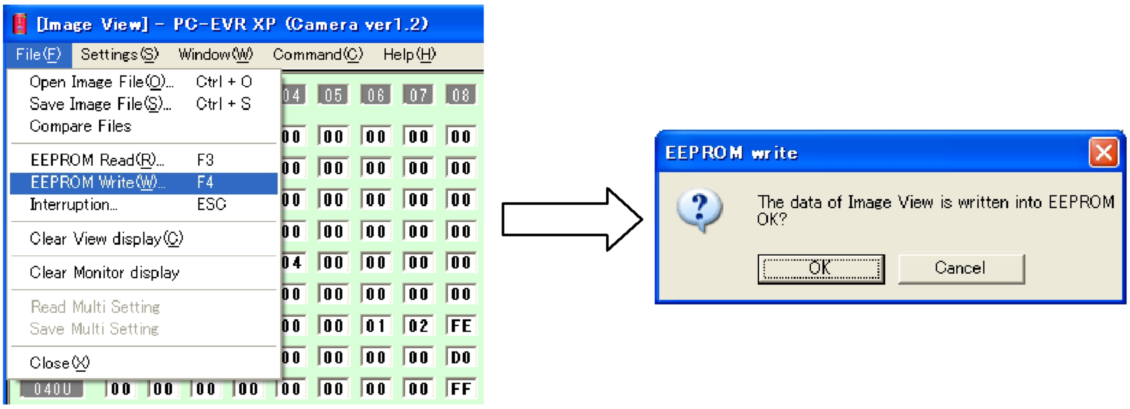
0001	00	01	02	03	04	05	06	07	08
000U	00								
000L	01								
010U									

6. When select **“Open Image File(O)”** in **“File(F)”** menu, the screen for selecting the file to be written will appear.



[Device View] - PC-EVR XP (Camera ver1.2)
File(F)
Settings(S)
Window(W)
Command(C)
Help(H)
Open Image File(O)... Ctrl + O
Save Image File(S)... Ctrl + S
Compare Files
EEPROM Read(R)... F3
EEPROM Write(W)... F4
Interruption... ESC
Clear View display(C)
Clear Monitor display
Read Multi Setting
Save Multi Setting
Close(X)
04
05
06
07
08
0080

7. Select the file of latter half part to be written in the Camera-Recorder.
8. Click **"Open(O)"** button in the screen and reading starts.
9. Select **"EEPROM Write(W)"** in **"File(F)"** menu, following message will appear.

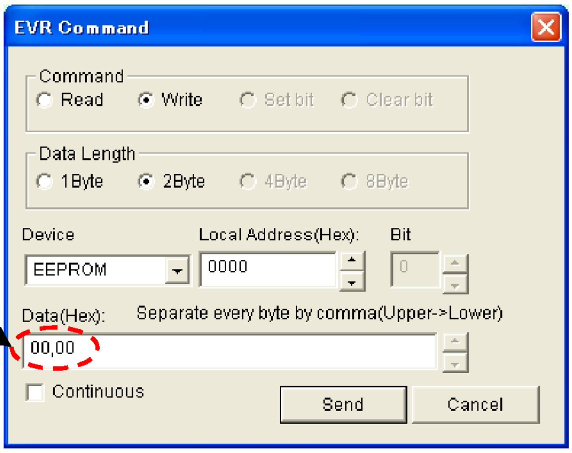

[Image View] - PC-EVR XP (Camera ver1.2)
File(F) Settings(S) Window(W) Command(C) Help(H)
Open Image File(O)... Ctrl + O
Save Image File(S)... Ctrl + S
Compare Files
EEPROM Read(R)... F3
EEPROM Write(W)... F4
Interruption... ESC
Clear View display(C)
Clear Monitor display
Read Multi Setting
Save Multi Setting
Close(X)
EEPROM write
OK
Cancel

The data of Image View is written into EEPROM OK?

When **"Cancel(C)"** button is clicked, writing EEPROM data is canceled.
When **"OK"** button is clicked, the writing starts.

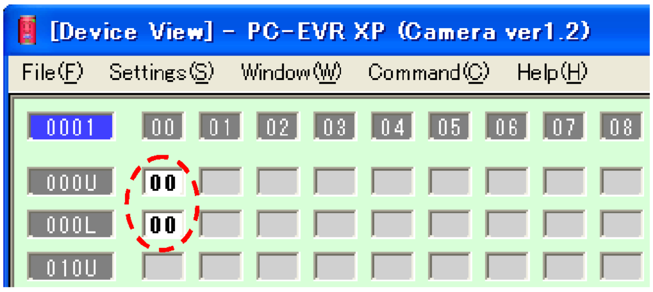
10. Red is displayed to the status lamp while writing it. When writing is completed, the status lamp changes into a blue display and a message of the **"writing data is completed"** will appear on screen.
11. Next, the data of the first half part is written. Select **"EVR Command"** in **"File(F)"** menu and set each item on EVR Command screen as follows.

It is input as 00,00.
(Setting to first half)


EVR Command
Command
○ Read ● Write ○ Set bit ○ Clear bit
Data Length
○ 1Byte ● 2Byte ○ 4Byte ○ 8Byte
Device
EEPROM
Local Address(Hex):
0000
Bit
0
Data(Hex): Separate every byte by comma(Upper->Lower)
00,00
☐ Continuous
Send
Cancel

Command	Write
Data Length	2Byte
Device	EEPROM
Local Address(Hex)	0000
Data(Hex)	00,00

12. Click **"Send"** button and confirm that the data of 0000UPPER and LOWER address is displayed as **"00"**.

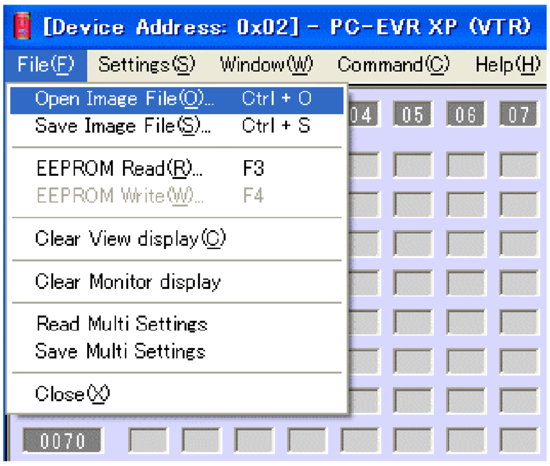

[Device View] - PC-EVR XP (Camera ver1.2)
File(F) Settings(S) Window(W) Command(C) Help(H)
0001
00 01 02 03 04 05 06 07 08
000U 00
000L 00
010U

13. Write the data of first half part follow the step 6 to 10. (Select the file of the first half part.)

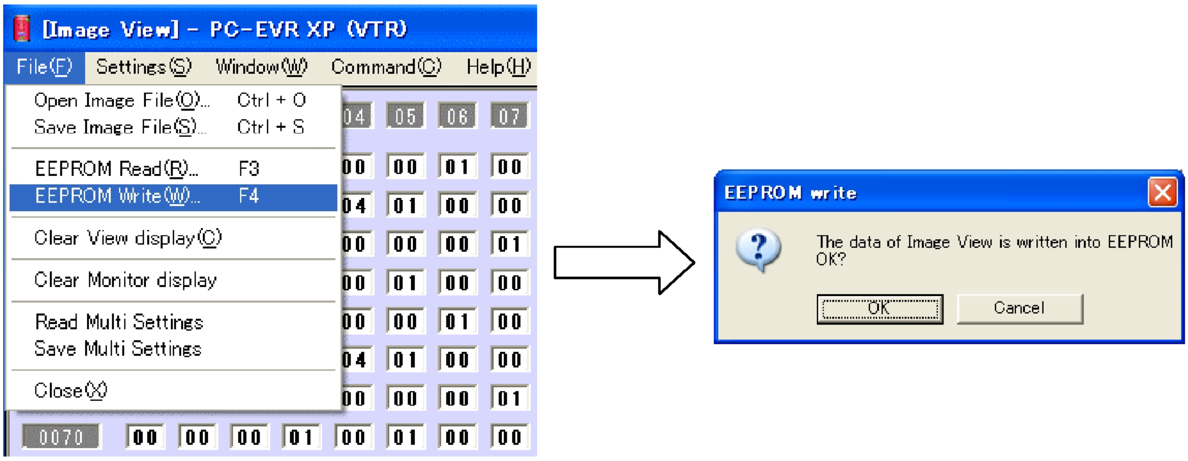
NOTE: When you over-write the saved EEPROM data to new board, please confirm whether it is the same EEPROM version of saved EEPROM and EEPROM on new board. In case of version is difference, please contact the Panasonic Service Engineering about interchange-ability.

13-2-2. Write data of CODEC and VTR-EEPROM

1. Set **SW8** on the measuring board to **“SYS”** side (For CODEC).
1. Set **SW8** on the measuring board to **“VTR”** side (For VTR).
2. This camera recorder is set to **P2-CAMERA** mode (For CODEC).
2. This camera recorder is set to **TAPE-CAMERA** mode (For VTR).
3. Select **“VTR(V)”** mode after start up the PC EVR software, and click **“OK”** button.
4. When select **“Open Image File(O)”** in **“File(F)”** menu, the screen for selecting the file to be written will appear.


[Device Address: 0x02] - PC-EVR XP (VTR)
File(F)
Settings(S)
Window(W)
Command(C)
Help(H)
Open Image File(O)... Ctrl + O
Save Image File(S)... Ctrl + S
EEPROM Read(R)... F3
EEPROM Write(W)... F4
Clear View display(C)
Clear Monitor display
Read Multi Settings
Save Multi Settings
Close(X)
04
05
06
07
0070

5. Select the file to be written in the Camera-Recorder.
6. Click **“Open(O)”** button in the screen and reading starts.
7. Select **“EEPROM Write(W)”** in **“File(F)”** menu, following message will appear.


[Image View] - PC-EVR XP (VTR)
File(F)
Settings(S)
Window(W)
Command(C)
Help(H)
Open Image File(O)... Ctrl + O
Save Image File(S)... Ctrl + S
EEPROM Read(R)... F3
EEPROM Write(W)... F4
Clear View display(C)
Clear Monitor display
Read Multi Settings
Save Multi Settings
Close(X)
0070
EEPROM write
OK
Cancel

The data of Image View is written into EEPROM OK?

When **“Cancel(C)”** button is clicked, writing EEPROM data is canceled.
When **“OK”** button is clicked, the writing starts.

8. Red is displayed to the status lamp while writing it. When writing is completed, the status lamp changes into a blue display.

NOTE: When you over-write the saved EEPROM data to new board, please confirm whether it is the same EEPROM version of saved EEPROM and EEPROM on new board. In case of version is difference, please contact the Panasonic Service Engineering about interchange-ability.

14. EEPROM data update procedure

< PREPARATION >

When EEPROM data updates, the PC EVR software is used. Please connect the tools and set up the PC EVR software follow the item **"12. PC EVR software"**. (→ Page INF-38)

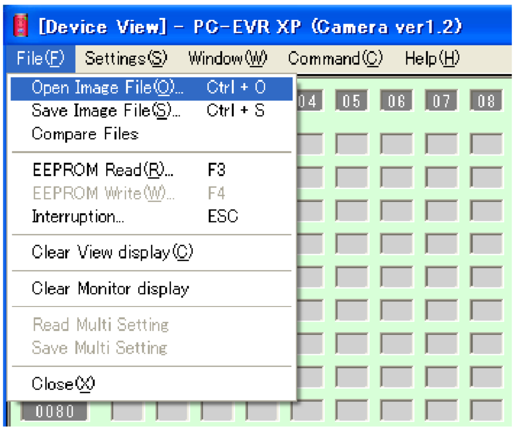
14-1. Update of Camera-EEPROM

Please download software of latest CAMERA EEPROM and the mask file to PC.

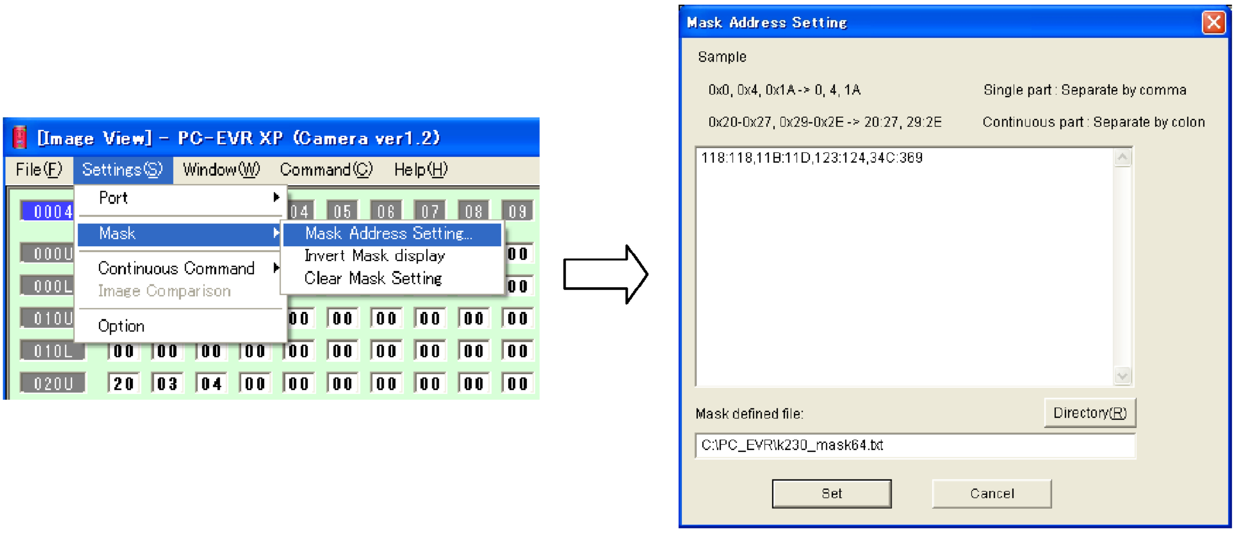
There is 64K of CAMERA EEPROM of this unit. It is necessary to make a file by the latter half and first half part, because this EVR software can be saved at a time only 32K.

NOTE: Please save data in order of latter half part → first half part.

1. Set **SW8** on the measuring board to **"SYS"** side.
2. This camera recorder is set to **P2-CAMERA** mode.
3. Select **"Camera(C)"** mode after start up the PC EVR software, and click **"OK"** button.
4. Select **"Open Image File(O)"** in **"File(F)"** menu, the screen for selecting the file to be written will appear.


[Device View] - PC-EVR XP (Camera ver1.2)
File(F)
Settings(S)
Window(W)
Command(C)
Help(H)
Open Image File(O)... Ctrl + O
Save Image File(S)... Ctrl + S
Compare Files
EEPROM Read(R)... F3
EEPROM Write(W)... F4
Interruption... ESC
Clear View display(C)
Clear Monitor display
Read Multi Setting
Save Multi Setting
Close(X)
04
05
06
07
08
0080

5. Select the file **"ex.) VVVSI*****-2.ee"** of latter half part to be written in the Camera-Recorder.
6. Click **"Open(O)"** button in the screen and reading starts.
7. After reading is completed, Select **"Mask Address Setting"** in **"Settings(S)"** menu, following screen will appear.
8. Click **"Directory(R)"** button in the screen, the screen for selecting the mask file to be written will appear.


[Image View] - PC-EVR XP (Camera ver1.2)
File(F)
Settings(S)
Window(W)
Command(C)
Help(H)
Port
Mask
Continuous Command
Image Comparison
Option
Mask Address Setting...
Invert Mask display
Clear Mask Setting
0004
000U
000L
010U
010L
020U
04
05
06
07
08
09
00
20
03
Mask Address Setting
Directory(R)
Set
Cancel

Sample

0x0, 0x4, 0x1A -> 0, 4, 1A　　Single part : Separate by comma

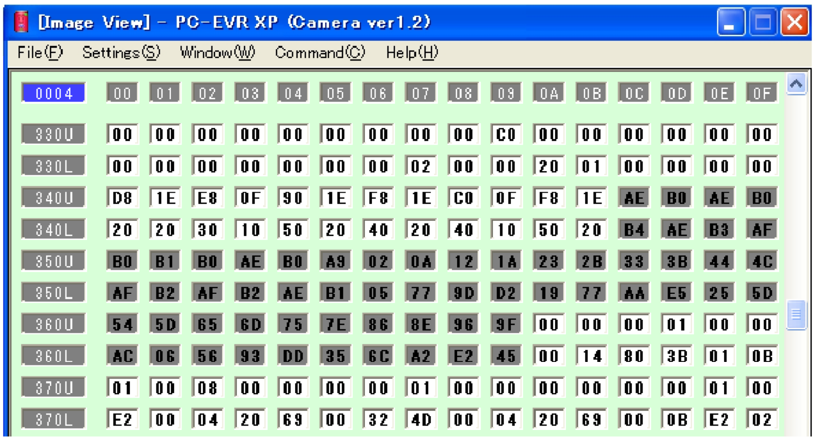
0x20-0x27, 0x29-0x2E -> 20:27, 29:2E　　Continuous part : Separate by colon

118:118,11B:11D,123:124,34C:369

Mask defined file:

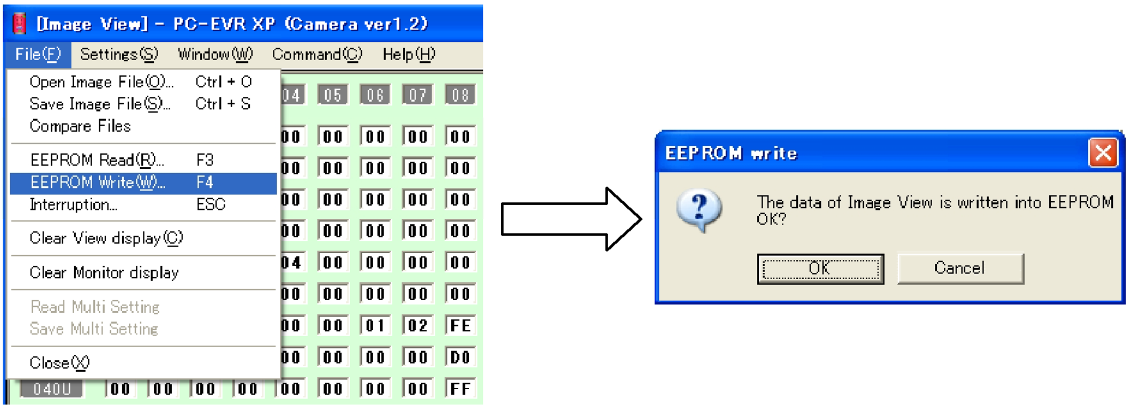
C:\PC_EVR\k230_mask64.txt

9. Select the mask file **“ex.) K230_mask64.txt”** of latter half part.
10. Click **“Set”** button in the Mask Address Setting screen, the mask is set.


[Image View] – PC-EVR XP (Camera ver1.2)
File(F) Settings(S) Window(W) Command(C) Help(H)

```
0004  00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
330U  00 00 00 00 00 00 00 00 00 C0 00 00 00 00 00 00
330L  00 00 00 00 00 00 00 02 00 00 20 01 00 00 00 00
340U  D8 1E E8 0F 90 1E F8 1E C0 0F F8 1E AE B0 AE B0
340L  20 20 30 10 50 20 40 20 40 10 50 20 B4 AE B3 AF
350U  B0 B1 B0 AE B0 A9 02 0A 12 1A 23 2B 33 3B 44 4C
350L  AF B2 AF B2 AE B1 05 77 9D D2 19 77 AA E5 25 5D
360U  54 5D 65 6D 75 7E 86 8E 96 9F 00 00 00 01 00 00
360L  AC 06 56 93 DD 35 6C A2 E2 45 00 14 80 3B 01 0B
370U  01 00 08 00 00 00 00 01 00 00 00 00 00 00 01 00
370L  E2 00 04 20 69 00 32 4D 00 04 20 69 00 0B E2 02
```

11. Select **“EEPROM Write(W)”** in **“File(F)”** menu, following message will appear.


[Image View] – PC-EVR XP (Camera ver1.2)
File(F) Settings(S) Window(W) Command(C) Help(H)
Open Image File(O)... Ctrl + O
Save Image File(S)... Ctrl + S
Compare Files
EEPROM Read(R)... F3
EEPROM Write(W)... F4
Interruption... ESC
Clear View display(C)
Clear Monitor display
Read Multi Setting
Save Multi Setting
Close(X)
EEPROM write
OK
Cancel

The data of Image View is written into EEPROM OK?

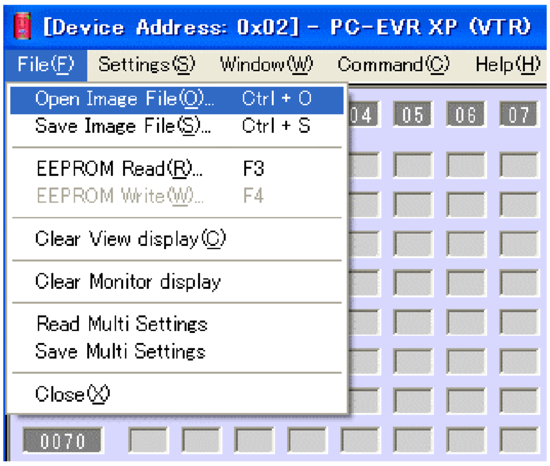
When **“Cancel(C)”** button is clicked, writing EEPROM data is canceled.
When **“OK”** button is clicked, the writing starts.

12. Red is displayed to the status lamp while writing it. When writing is completed, the status lamp changes into a blue display and a message of the **“writing data is completed”** will appear on screen.
13. Next, the data of the first half part is update. Update the data of first half part follow the step 4 to 12. (Select the data file **“ex.) VVVSI*****-1.ee”** and mask file **“ex.) K230_mask32.txt”** of the first half part.)
14. Turn the power of camera recorder to OFF and ON to restart it.
15. The version is displayed for the confirmation and whether it is updated is confirmed. As for the confirm method of the version, please refer to item **“8-1-2. Software version display”**. (→ Page INF-20)

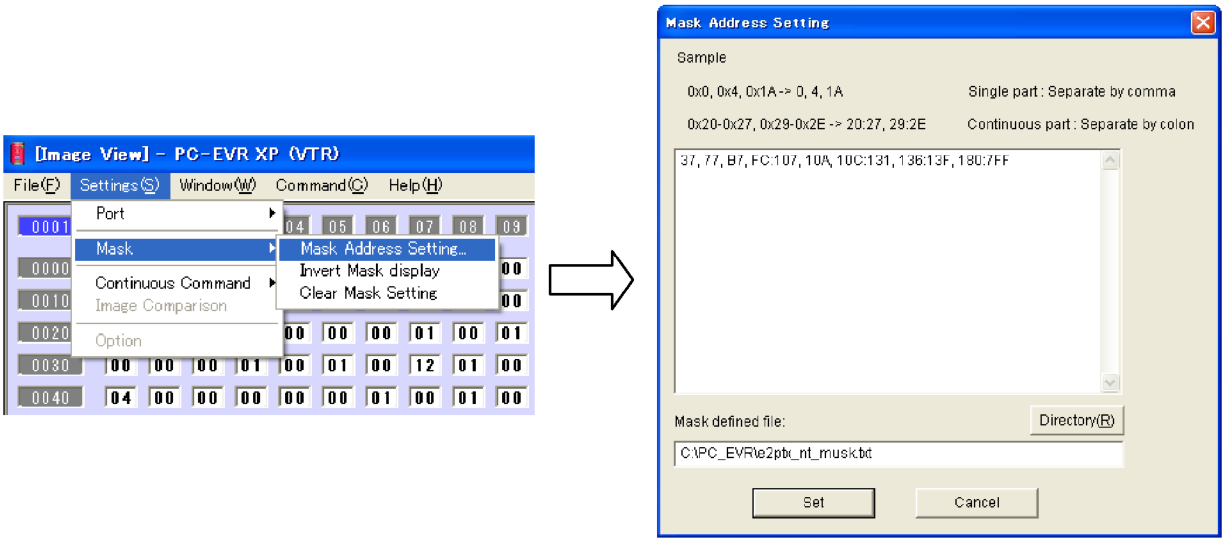
14-2. Update of CODEC and VTR-EEPROM

Please download software of latest CAMERA EEPROM and the mask file to PC.

1. Set **SW8** on the measuring board to **“SYS”** side (For CODEC).
1. Set **SW8** on the measuring board to **“VTR”** side (For VTR).
2. This camera recorder is set to **P2-CAMERA** mode (For CODEC).
2. This camera recorder is set to **TAPE-CAMERA** mode (For VTR).
3. Select **“VTR(V)”** mode after start up the PC EVR software, and click **“OK”** button.
4. When select **“Open Image File(O)”** in **“File(F)”** menu, the screen for selecting the file to be written will appear.


[Device Address: 0x02] - PC-EVR XP (VTR)
File(F)
Settings(S)
Window(W)
Command(C)
Help(H)
Open Image File(O)... Ctrl + O
Save Image File(S)... Ctrl + S
EEPROM Read(R)... F3
EEPROM Write(W)... F4
Clear View display(C)
Clear Monitor display
Read Multi Settings
Save Multi Settings
Close(X)
04
05
06
07
0070

5. Select the file **“ex.) VVVSI*****.txt”** to be written in the Camera-Recorder
6. Click **“Open(O)”** button in the screen and reading starts.
7. After reading is completed, Select **“Mask Address Setting”** in **“Settings(S)”** menu, following screen will appear.
8. Click **“Directory(R)”** button in the screen, the screen for selecting the mask file to be written will appear.


[Image View] - PC-EVR XP (VTR)
File(F)
Settings(S)
Window(W)
Command(C)
Help(H)
Port
Mask
Continuous Command
Image Comparison
Option
Mask Address Setting...
Invert Mask display
Clear Mask Setting
0001
0000
0010
0020
0030
0040
Mask Address Setting
Sample
Directory(R)
Set
Cancel

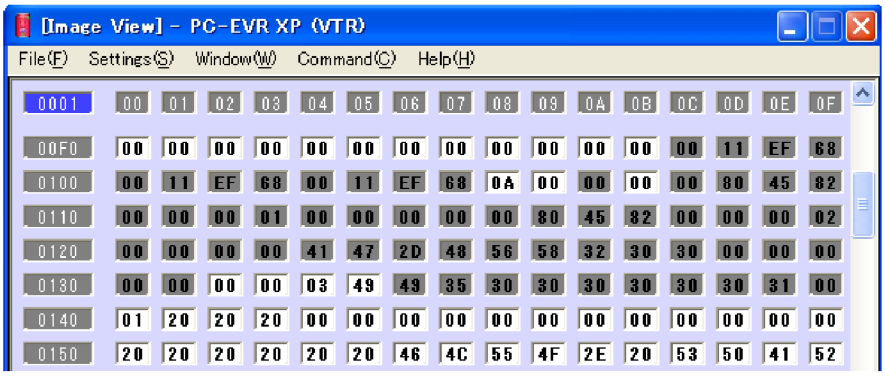
0x0, 0x4, 0x1A -> 0, 4, 1A Single part : Separate by comma

0x20-0x27, 0x29-0x2E -> 20:27, 29:2E Continuous part : Separate by colon

37, 77, B7, FC:107, 10A, 10C:131, 136:13F, 180:7FF

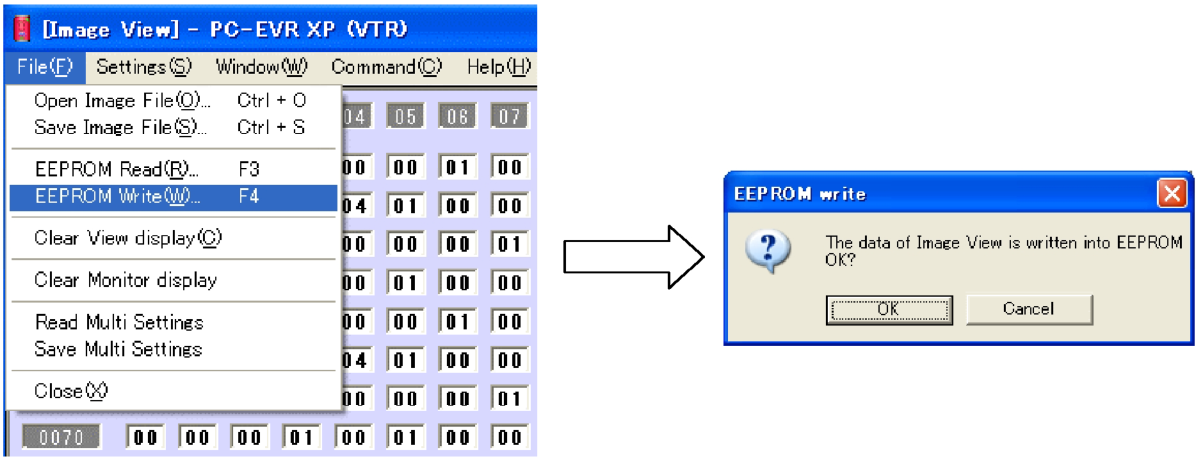
Mask defined file: C:\PC_EVR\e2ptx_nt_musk.txt

9. Select the mask file and click **“Set”** button in the Mask Address Setting screen, the mask is set.
   Mask file for CODEC: **“ex.) e2ptx_nt_mask.txt ”**
   Mask file for VTR: **“ex.) K230EEP_MASK.txt”**


[Image View] – PC-EVR XP (VTR)
File(F)
Settings(S)
Window(W)
Command(C)
Help(H)

0001	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00F0	00	00	00	00	00	00	00	00	00	00	00	00	00	11	EF	68
0100	00	11	EF	68	00	11	EF	68	0A	00	00	00	00	80	45	82
0110	00	00	00	01	00	00	00	00	00	80	45	82	00	00	00	02
0120	00	00	00	00	41	47	2D	48	56	58	32	30	30	00	00	00
0130	00	00	00	00	03	49	49	35	30	30	30	30	30	30	31	00
0140	01	20	20	20	00	00	00	00	00	00	00	00	00	00	00	00
0150	20	20	20	20	20	20	46	4C	55	4F	2E	20	53	50	41	52

10. Select **“EEPROM Write(W)”** in **“File(F)”** menu, following message will appear.


[Image View] – PC-EVR XP (VTR)
File(F)
Settings(S)
Window(W)
Command(C)
Help(H)
Open Image File(O)... Ctrl + O
Save Image File(S)... Ctrl + S
EEPROM Read(R)... F3
EEPROM Write(W)... F4
Clear View display(C)
Clear Monitor display
Read Multi Settings
Save Multi Settings
Close(X)
EEPROM write
OK
Cancel

The data of Image View is written into EEPROM OK?

When **“Cancel(C)”** button is clicked, writing EEPROM data is canceled.
When **“OK”** button is clicked, the writing starts.

11. Red is displayed to the status lamp while writing it. When writing is completed, the status lamp changes into a blue display.
12. Turn the power of camera recorder to OFF and ON to restart it.
13. The version is displayed for the confirmation and whether it is updated is confirmed. As for the confirm method of the version, please refer to item **“8-1-2. Software version display”**. (→ Page INF-20)

15. UID Writing Procedure

< PREPARATION >

When UID is written, the PC EVR software is used. Please connect the tools and set up the PC EVR software follow the item **"12. PC EVR software"**. (→ Page INF-38)

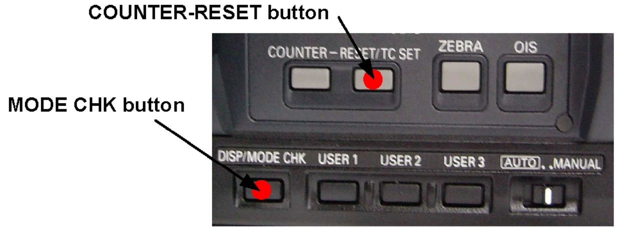
15-1. Confirmation Method for UID

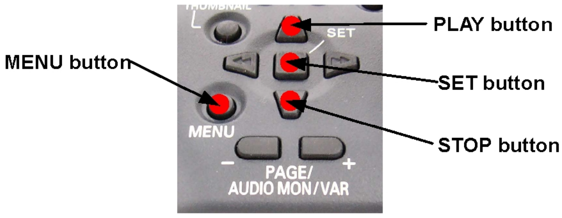
UID is registered on this camera recorder. The confirmation method is explained below.

UMID code is assigned the unique code (number/16 figures) every this camera recorder.

1. Press the button in order of **"COUNTER-RESET button"** → **"STOP button"** → **"MODE CHK button"** → **"MENU button"**, DIAGNOSTIC and the ADJUST menu can be displayed in addition to a setup menus.

NOTE: P2-PC and TAPE-DUB mode can not be display the DIAGNOSTIC and ADJUST menu.



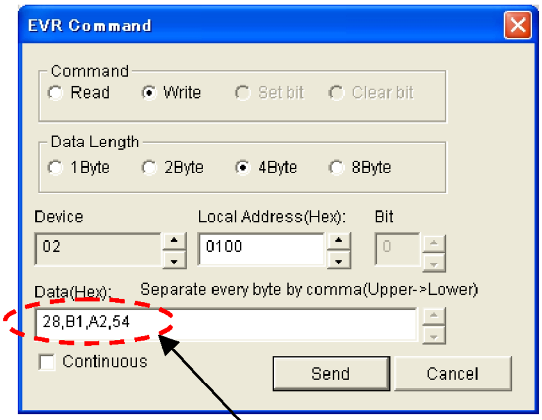


2. Next, press the PLAY or STOP button to select the DIAGNOSTIC menu. And press SET(STILL) button to open the DIAGNOSTIC menu.
3. When the item 1394 UID is selected, and press SET(STILL) button, 3 kinds of numbers are displayed as P2, SBP2 and TAPE UID. The displayed numbers of 16 figures is **"UID"**.

ex.) 00804582-38837003 (First 8 figures are fixed numbers and last 8 figures are unique numbers).

15-2. Writing Procedures for UID

1. Set **SW8** on the measuring board to **"SYS"** side (When you write P2 and SBP2 UID).
1. Set **SW8** on the measuring board to **"VTR"** side (When you write TAPE UID).
2. This camera recorder is set to **P2-CAMERA** mode (When you write P2 and SBP2 UID).
2. This camera recorder is set to **TAPE-CAMERA** mode (When you write TAPE UID).
3. Select **"VTR(V)"** mode after start up the PC EVR software, and click **"OK"** button.
4. Select **"EVR Command"** in **"File(F)"** menu and set each item on EVR Command screen as follows.



Command: ○ Read ● Write ○ Set bit ○ Clear bit

Data Length: ○ 1Byte ○ 2Byte ● 4Byte ○ 8Byte

Device: 02

Local Address(Hex): 0100

Bit: 0

Data(Hex): Separate every byte by comma(Upper->Lower)

28,B1,A2,54

☐ Continuous

	SBP2 UID	P2 UID	TAPE UID
Command	Write	Write	Write
Data Length	4Byte	4Byte	4Byte
Device	02	02	02
Local Address(Hex)	0110	011C	00B0

ex.) SBP2 UID
When inputting as 28,B1, A2,54

5. Input the last 8 figure numbers in Data(Hex) box. When the last 8 figure numbers are noted in advance, input the same numbers as noted ones. If the last 8 figures are missed, new numbers are given. So please contact the Panasonic Service Engineering.
6. Click **"Send"** button, the writing starts.
7. Confirm that it is corresponded to the inputted figures after writing the UID data. Just in case, confirm it by the DIAGNOSTIC menu.

16. Rewriting setting of data according to destination

When the CODEC board or VTR board is exchanged to new one, this operation is required (Refer to page INF-12 and 13).

< PREPARATION >
When rewriting setting of data according to destination, the PC EVR software is used. Please connect the tools and set up the PC EVR software follow the item **"12. PC EVR software"**. (→ Page INF-38)

16-1. In case of CODEC board is exchanged (Required only for AN, EN and MC model)

As for the CODEC board of the NTSC version, default is set to AG-HVX200P.

	AG-HVX200P (default)	
	Local Address(Hex)	Data(Hex)
MAIN AREA	010A	01
MODEL No. (T, P or AN)	012D	50
TIME ZONE initial value	0037	00
TIME ZONE user value	0077	00
TIME ZONE current value	00B7	00

As for the CODEC board of the PAL version, default is set to AG-HVX200E.

	AG-HVX200E (default)	
	Local Address(Hex)	Data(Hex)
MAIN AREA	010A	02
MODEL No. (200 or 202)	012C	30
MODEL No. (E, EN or MC)	012D	45
MODEL No. (E, EN or MC)	012E	00
LANGUAGE initial value	0039	00
LANGUAGE user value	0079	00
LANGUAGE current value	00B9	00

< PROCEDURE >

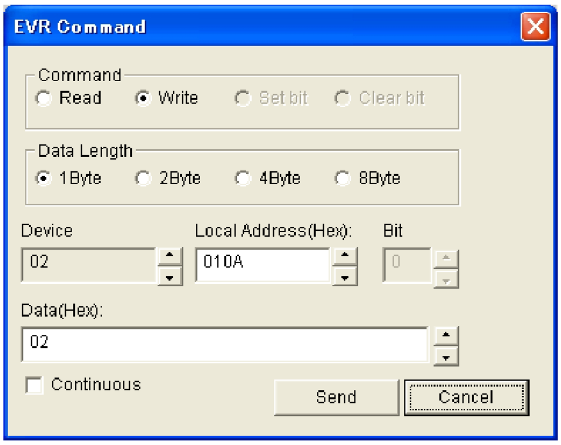
1. Set **SW8** on the measuring board to **"SYS"** side.
2. This camera recorder is set to **P2-CAMERA** mode.
3. In the item shown in the table below, the data change is needed. Please set a Local Address and the Data allocated in each item. The setting of the Command, Data Length and Device are common with all items.

Command: Write
Data Length: 1Byte
Device: 02

	AG-HVX200AN	
	Local Address(Hex)	Data(Hex)
MAIN AREA	010A	01
MODEL No. (T or P)	012D	41
TIME ZONE initial value	0037	4E
TIME ZONE user value	0077	00
TIME ZONE current value	00B7	00

	AG-HVX202EN		AG-HVX200MC	
	Local Address(Hex)	Data(Hex)	Local Address(Hex)	Data(Hex)
MAIN AREA	010A	02	010A	03
MODEL No. (200 or 202)	012C	32	012C	30
MODEL No. (E, EN or MC)	012D	45	012D	4D
MODEL No. (E, EN or MC)	012E	4E	012E	43
LANGUAGE initial value	0039	00	0039	01
LANGUAGE user value	0079	00	0079	01
LANGUAGE current value	00B9	00	00B9	01

4. Select **“VTR(V)”** mode after start up the PC EVR software, and click **“OK”** button.
5. Select **“EVR Command”** in **“File(F)”** menu and set each item on EVR Command screen following the content shown in step 3.



Command: ○ Read ● Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: 02
Local Address(Hex): 010A
Bit: 0
Data(Hex): 02
☐ Continuous

ex.) AG-HVX202EN
When setting of MAIN AREA

6. Click **“Send”** button, the writing starts.

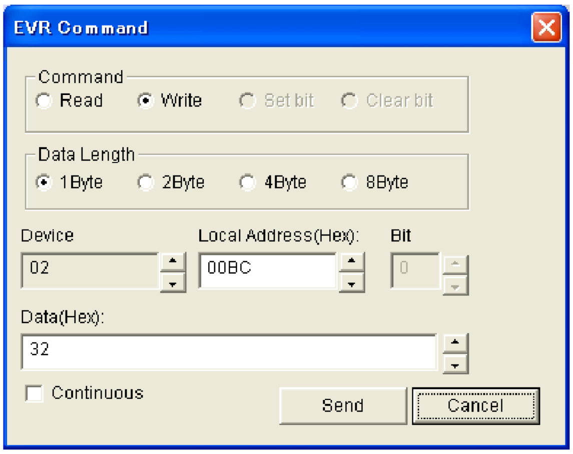
16-2. In case of VTR board is exchanged (Required only for EN model)

1. Set **SW8** on the measuring board to **“VTR”** side.
2. This camera recorder is set to **TAPE-CAMERA** mode.
3. In the item shown in the table below, the data change is needed. Please set a Local Address and the Data allocated in each item. The setting of the Command, Data Length and Device are common with all items.

AG-HVX202EN	
Local Address(Hex)	Data(Hex)
00BC	32
0428	04

Command: Write
Data Length: 1Byte
Device: 02

4. Select **“VTR(V)”** mode after start up the PC EVR software, and click **“OK”** button.
5. Select **“EVR Command”** in **“File(F)”** menu and set each item on EVR Command screen following the content shown in step 3.



Command: ○ Read ● Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: 02
Local Address(Hex): 00BC
Bit: 0
Data(Hex): 32
☐ Continuous

6. Click **“Send”** button, the writing starts.

17. Factory Initialize

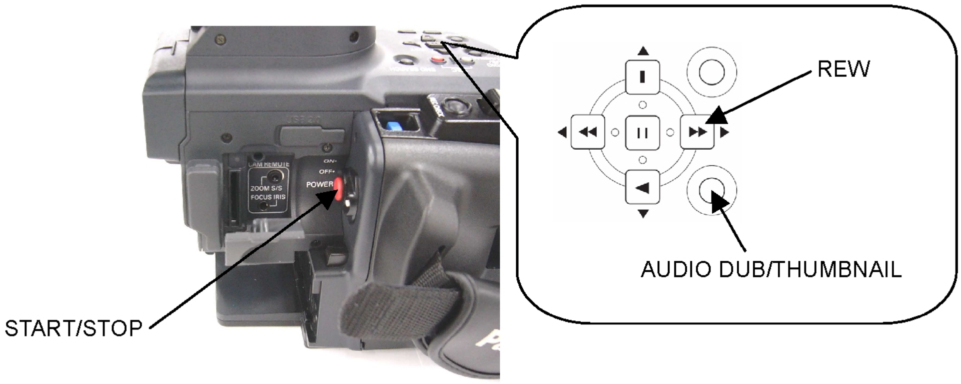
When the FACTORY initialization is executed, the following data etc. are initialized.

- Setting menu (factory default)
- GUI menu (factory default)
- META data
- Counter value of P2 and VTR

NOTE: The value of the hour meter is not reset.

< Initialize procedure >

1. Set the camera recorder to Dubbing mode.
2. It waits until blinking the **"DUB"** display in the LCD display ends, and the thumbnail is displayed.
3. The following three buttons are pushed at the same time for two seconds or more.
   [AUDIO DUB/THUMBNAIL] + **[REW]** + **[START/STOP]**



4. After it is blink displayed as **"FACTORY INIT"**, it replaces the **"FACTORY INIT OK: * "** display.
   The mark ***** is indicated as shipment destination information. Please confirm that mark is corresponding to the destination of the camera recorder.
   Ex.) In case of AG-HVX200P, it displayed as "P".

NOTE: The model AG-HVX202EN is displayed as "E" and AG-HVX200AN is displayed as "P".

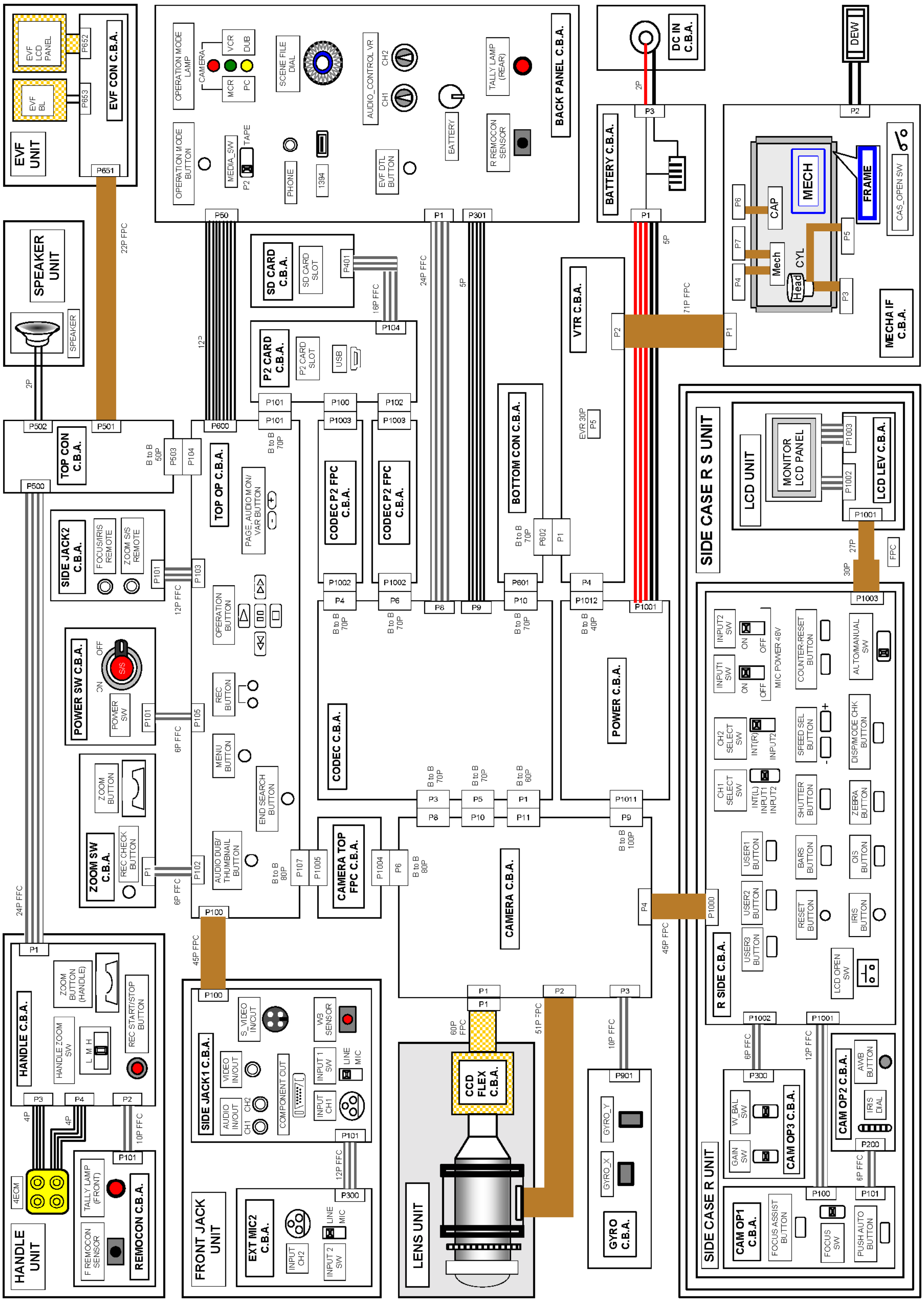
FACTORY INIT

⇨

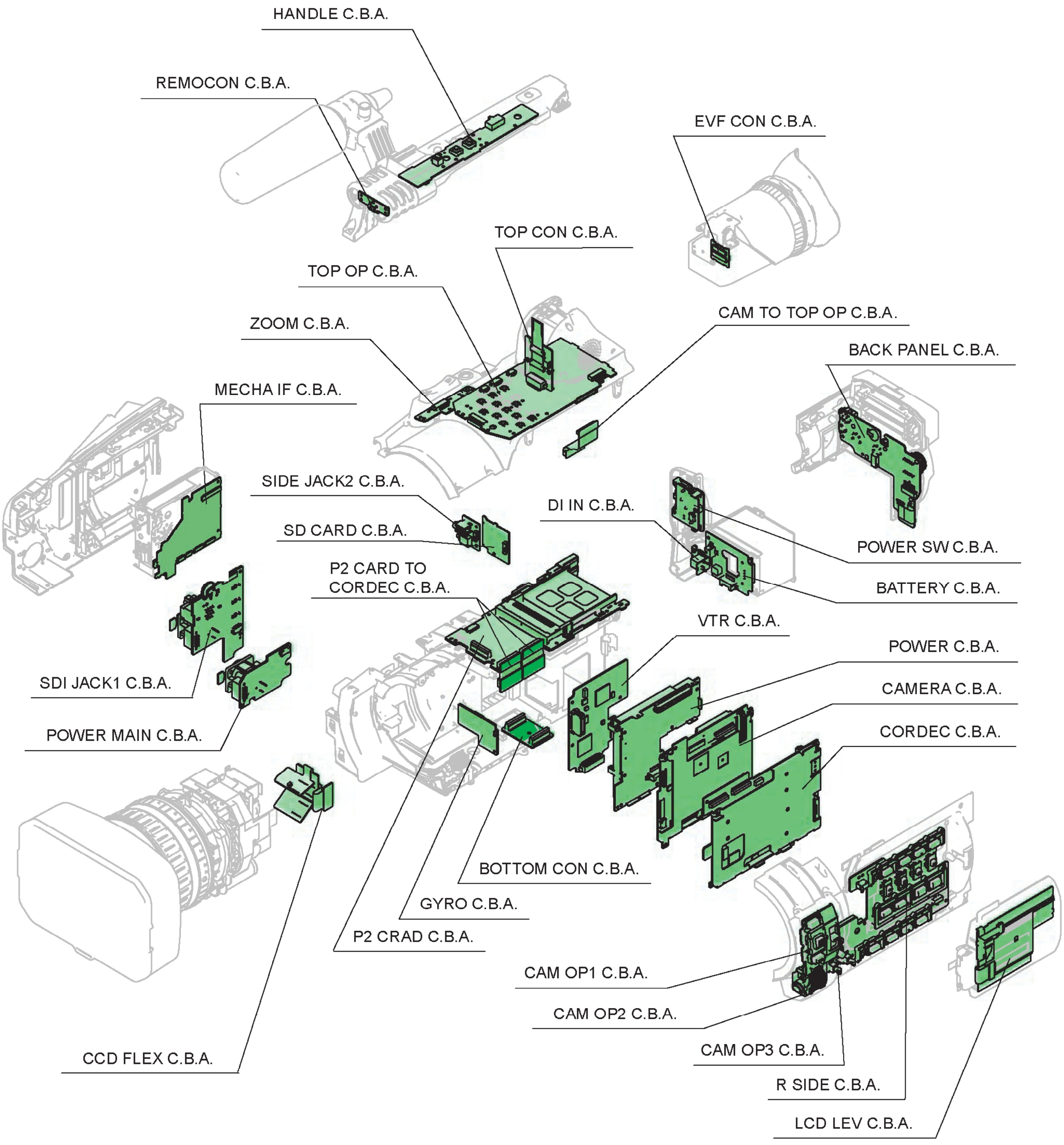
FACTORY INIT OK: *
TURN POWER OFF

5. Turn power off this camera recorder.

18. INTERCONNECTION

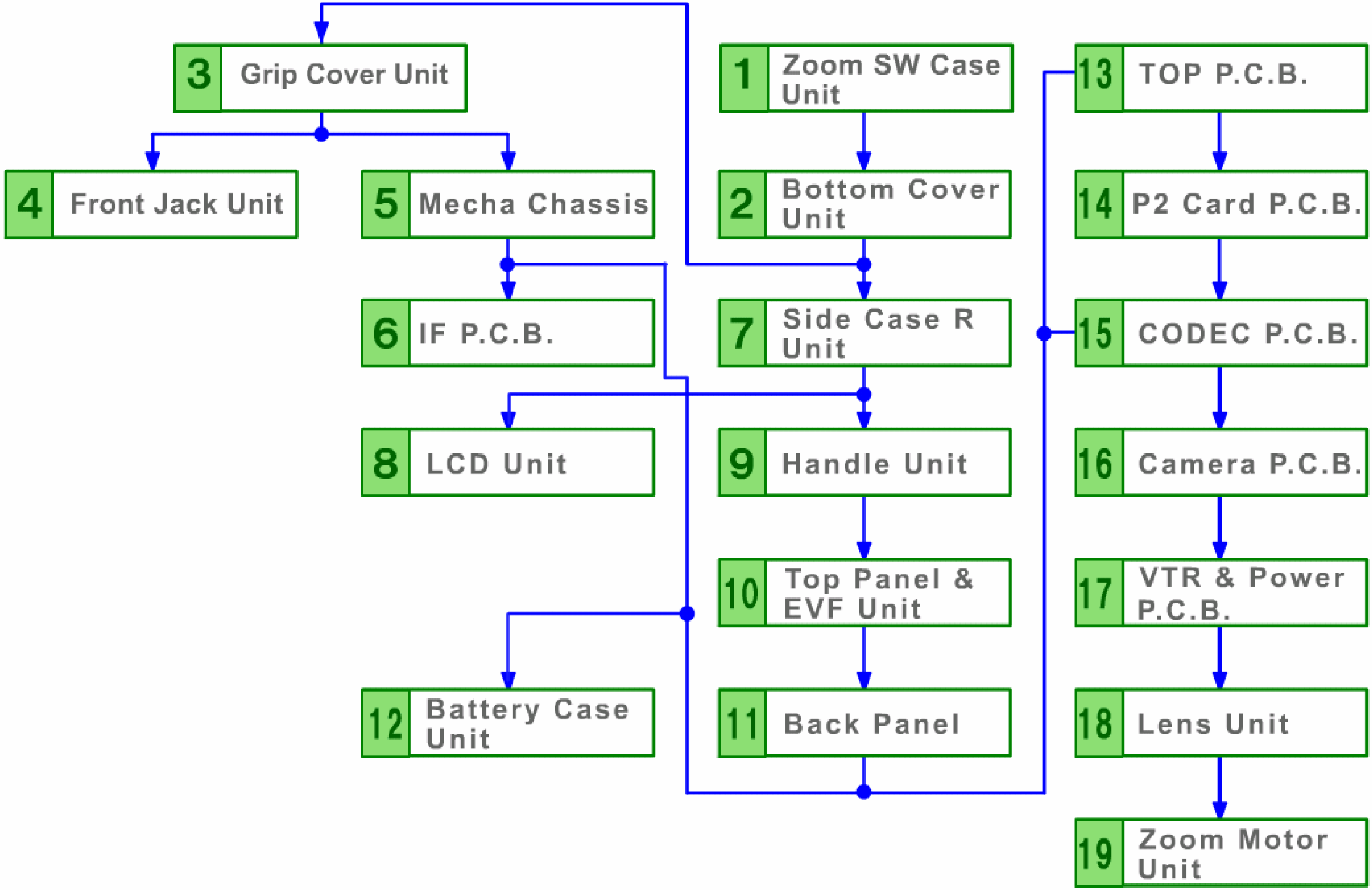

EVF UNIT
EVF LCD PANEL
EVF BL
EVF CON C.B.A.
P652
P653
P651
22P FFC
SPEAKER UNIT
SPEAKER
2P
TOP CON C.B.A.
P502
P501
P500
P503
P504
B to B 50P
BACK PANEL C.B.A.
OPERATION MODE LAMP
OPERATION MODE BUTTON
CAMERA
VCR
MCR
DUB
PC
MEDIA_SW
TAPE
SCENE FILE DIAL
PHONE
1394
AUDIO_CONTROL VR
CH1
CH2
EVF DTL BUTTON
BATTERY
TALLY LAMP (REAR)
R REMOCON SENSOR
P50
P1
P301
P2
12P
24P FFC
5P
SD CARD C.B.A.
SD CARD SLOT
P401
16P FFC
P2 CARD C.B.A.
P2 CARD SLOT
USB
P104
P101
P100
P102
P1003
TOP OP C.B.A.
P600
B to B 70P
PAGE, AUDIO MON/VAR BUTTON
OPERATION BUTTON
REC BUTTON
MENU BUTTON
END SEARCH BUTTON
AUDIO DUB/THUMBNAIL BUTTON
P103
P105
P102
P107
P100
SIDE JACK2 C.B.A.
FOCUS/IRIS REMOTE
ZOOM S/S REMOTE
P101
12P FFC
POWER SW C.B.A.
POWER SW
ON
OFF
S/S
6P FFC
ZOOM SW C.B.A.
ZOOM BUTTON
REC CHECK BUTTON
24P FFC
CODEC P2 FPC C.B.A.
P1002
P4
P6
CODEC C.B.A.
BOTTOM CON C.B.A.
P602
P801
P10
P8
P9
VTR C.B.A.
EVR 30P
P5
POWER C.B.A.
P1012
B to B 40P
P1001
DC IN C.B.A.
BATTERY C.B.A.
P3
71P FFC
DEW
MECH
FRAME
CAP
CYL
Mech
Head
CAS_OPEN SW
MECHA IF C.B.A.
P6
P7
P4
P5
CAMERA TOP FPC C.B.A.
P1005
P1004
B to B 80P
P3
P5
P1
P11
P1011
B to B 100P
B to B 60P
CAMERA C.B.A.
45P FPC
HANDLE C.B.A.
ZOOM BUTTON (HANDLE)
HANDLE ZOOM SW
L M H
REC START/STOP BUTTON
4ECM
4P
10P FFC
HANDLE UNIT
TALLY LAMP (FRONT)
F REMOCON SENSOR
REMOCON C.B.A.
SIDE JACK1 C.B.A.
S_VIDEO IN/OUT
WB SENSOR
VIDEO IN/OUT
AUDIO IN/OUT
COMPONENT OUT
INPUT 1 SW
INPUT CH1
LINE MIC
12P FFC
P300
FRONT JACK UNIT
EXT MIC2 C.B.A.
INPUT CH2
INPUT 2 SW
60P FPC
51P FPC
CCD FLEX C.B.A.
LENS UNIT
P901
GYRO_Y
GYRO_X
GYRO C.B.A.
SIDE CASE R S UNIT
LCD UNIT
MONITOR LCD PANEL
LCD LEV C.B.A.
27P
30P
FPC
INPUT2 SW
INPUT1 SW
MIC POWER 48V
COUNTER,RESET BUTTON
AUTO/MANUAL SW
CH2 SELECT SW
CH1 SELECT SW
INT(L)
INT(R)
INPUT1
INPUT2
SPEED SEL BUTTON
DISP/MODE CHK BUTTON
SHUTTER BUTTON
ZEBRA BUTTON
USER1 BUTTON
USER2 BUTTON
USER3 BUTTON
BARS BUTTON
RESET BUTTON
OIS BUTTON
IRIS BUTTON
LCD OPEN SW
R SIDE C.B.A.
P1000
SIDE CASE R UNIT
CAM OP3 C.B.A.
W_BAL SW
GAIN SW
CAM OP2 C.B.A.
AWB BUTTON
IRIS DIAL
CAM OP1 C.B.A.
FOCUS ASSIST BUTTON
FOCUS SW
PUSH AUTO BUTTON
P200

19. CIRCUIT BOARD LAYOUT


HANDLE C.B.A.
REMOCON C.B.A.
EVF CON C.B.A.
TOP CON C.B.A.
TOP OP C.B.A.
CAM TO TOP OP C.B.A.
ZOOM C.B.A.
BACK PANEL C.B.A.
MECHA IF C.B.A.
SIDE JACK2 C.B.A.
DI IN C.B.A.
SD CARD C.B.A.
POWER SW C.B.A.
P2 CARD TO CORDEC C.B.A.
BATTERY C.B.A.
VTR C.B.A.
POWER C.B.A.
SDI JACK1 C.B.A.
CAMERA C.B.A.
POWER MAIN C.B.A.
CORDEC C.B.A.
BOTTOM CON C.B.A.
GYRO C.B.A.
P2 CRAD C.B.A.
CAM OP1 C.B.A.
CAM OP2 C.B.A.
CCD FLEX C.B.A.
CAM OP3 C.B.A.
R SIDE C.B.A.
LCD LEV C.B.A.

DISASSEMBLY PROCEDURES

The following chart shows witch parts to remove for the removal of replacement part.Assembling the parts by following the flow chart, the replacement work is effective.(Press the item to display the details screen.)



1 Zoom SW Case Unit
2 Bottom Cover Unit
3 Grip Cover Unit
4 Front Jack Unit
5 Mecha Chassis
6 IF P.C.B.
7 Side Case R Unit
8 LCD Unit
9 Handle Unit
10 Top Panel & EVF Unit
11 Back Panel
12 Battery Case Unit
13 TOP P.C.B.
14 P2 Card P.C.B.
15 CODEC P.C.B.
16 Camera P.C.B.
17 VTR & Power P.C.B.
18 Lens Unit
19 Zoom Motor Unit

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

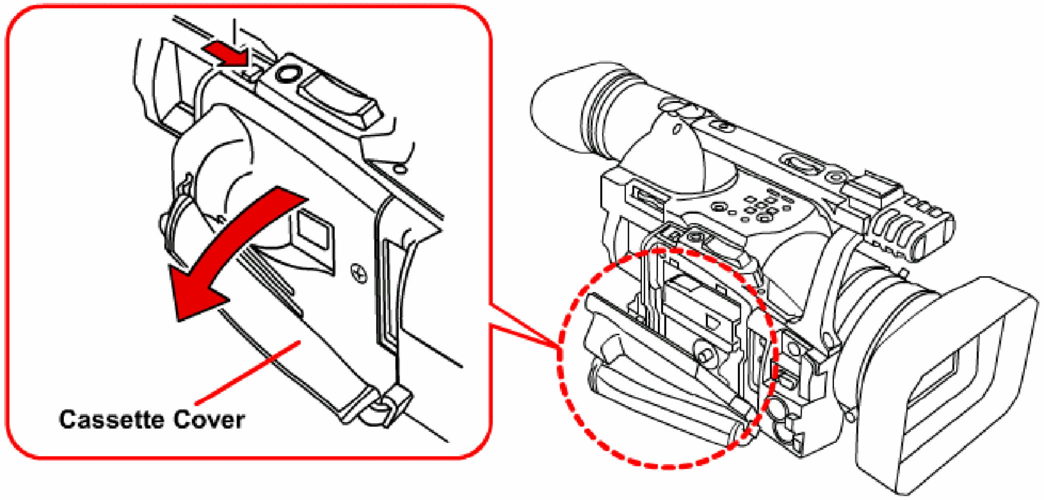
1 Open the cassette cover.

2 Remove the 6 screws.

3 Remove the zoom sw case unit.

Auto Play ON OFF

1 Zoom SW Case Unit



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press **ON** button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

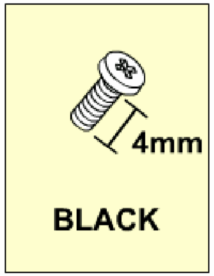
Disassembly Assembly

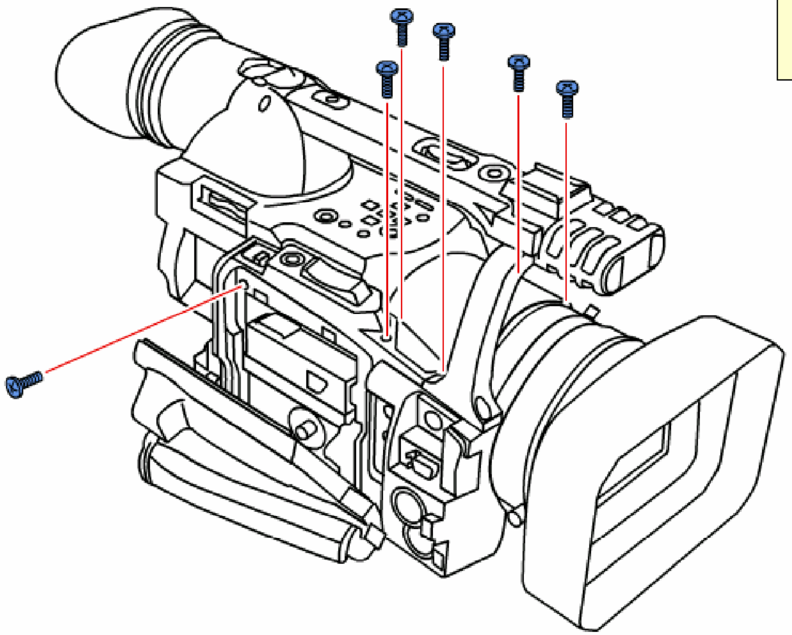
1 Open the cassette cover.

2 Remove the 6 screws.

3 Remove the zoom sw case unit.

1 Zoom SW Case Unit





PLAY

Auto Play ON OFF

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

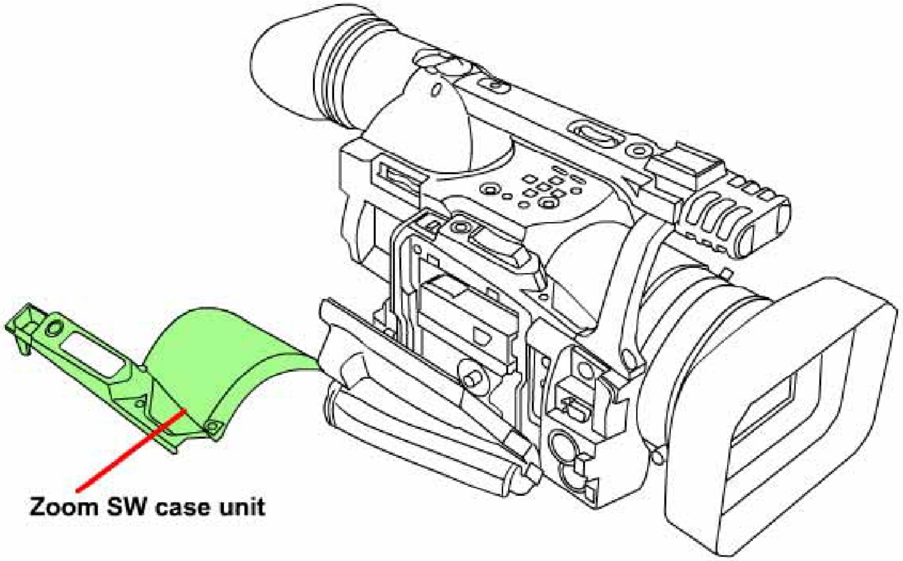
1 Open the cassette cover.

2 Remove the 6 screws.

3 Remove the zoom sw case unit.

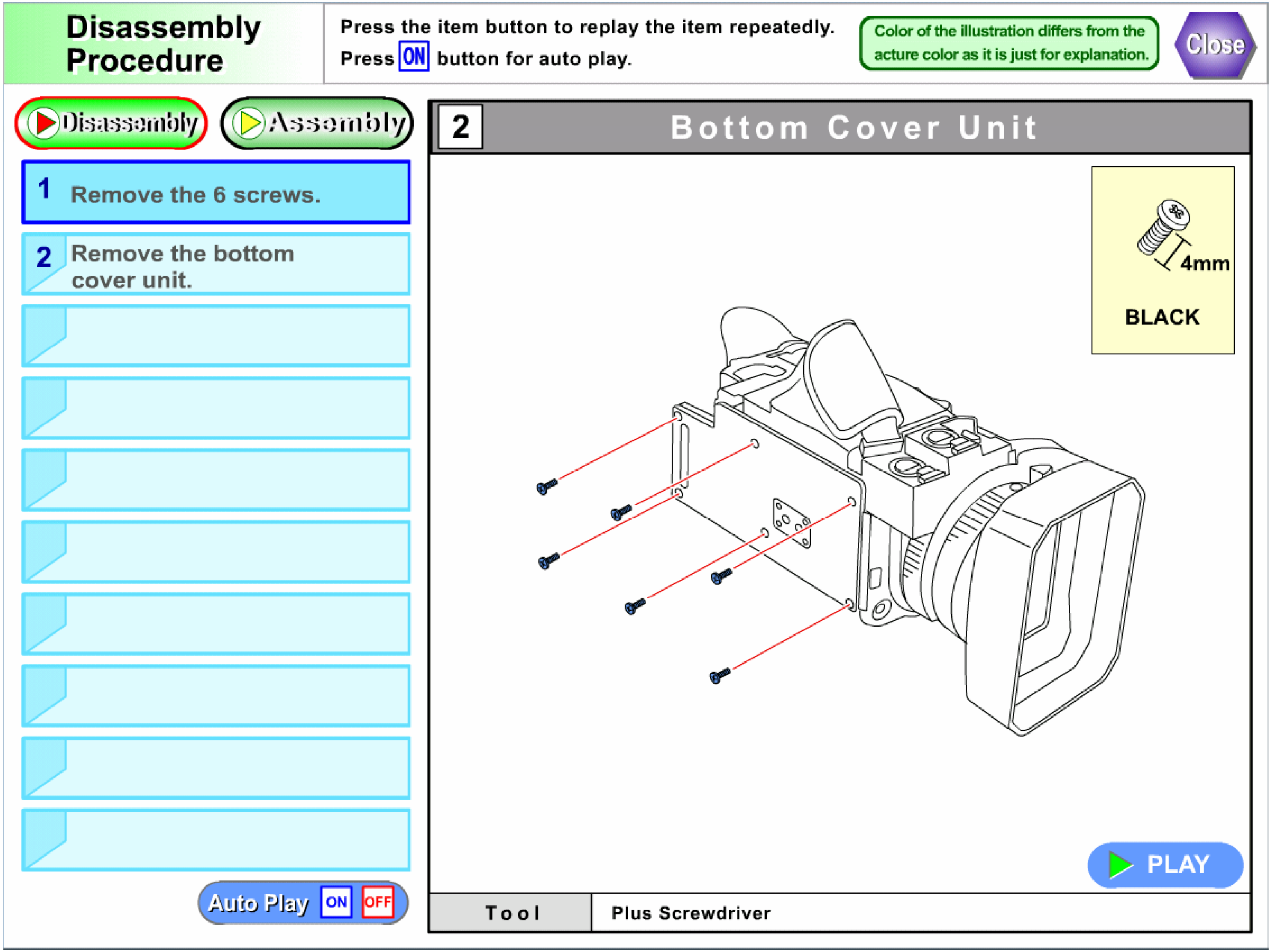
Auto Play ON OFF

1 Zoom SW Case Unit



PLAY

Tool	Plus Screwdriver



Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close
Disassembly
Assembly

2 Bottom Cover Unit

1 Remove the 6 screws.

2 Remove the bottom cover unit.

4mm
BLACK
PLAY
Auto Play
ON
OFF

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press **ON** button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

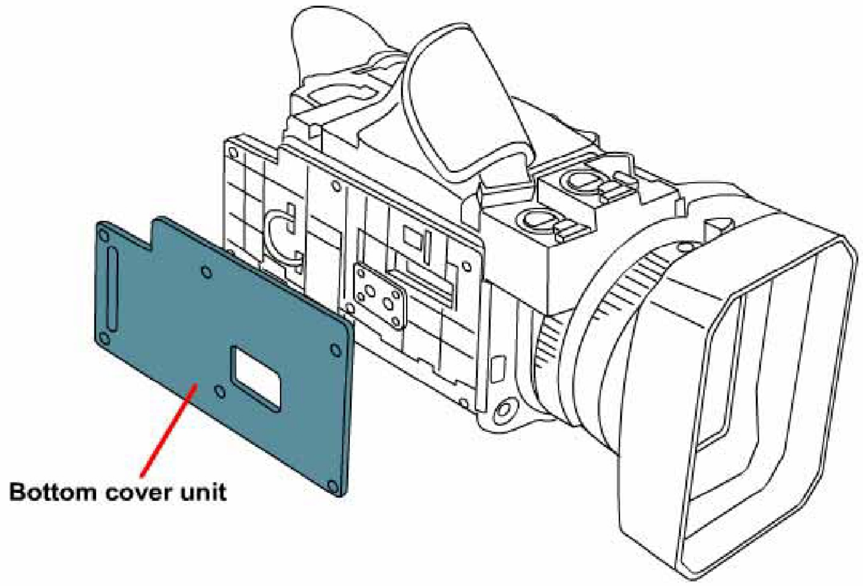
Disassembly Assembly

1 Remove the 6 screws.

2 Remove the bottom cover unit.

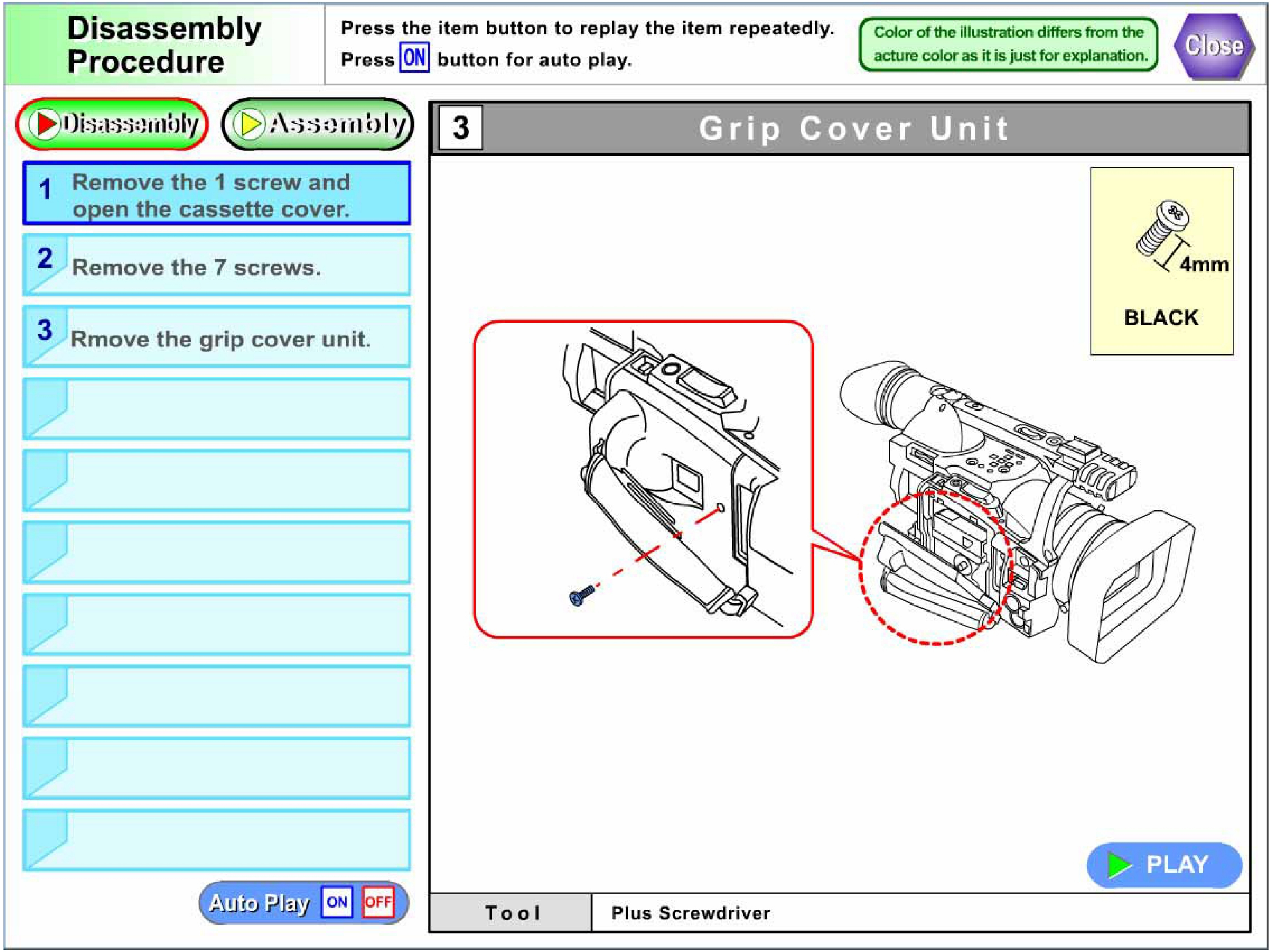
Auto Play ON OFF

2 Bottom Cover Unit



PLAY

Tool	**Plus Screwdriver**


Disassembly
Assembly
Close
Auto Play ON OFF
4mm
PLAY

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

1 Remove the 1 screw and open the cassette cover.

2 Remove the 7 screws.

3 Rmove the grip cover unit.

3 Grip Cover Unit

BLACK

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

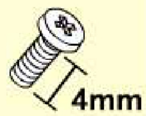
1 Remove the 1 screw and open the cassette cover.

2 Remove the 7 screws.

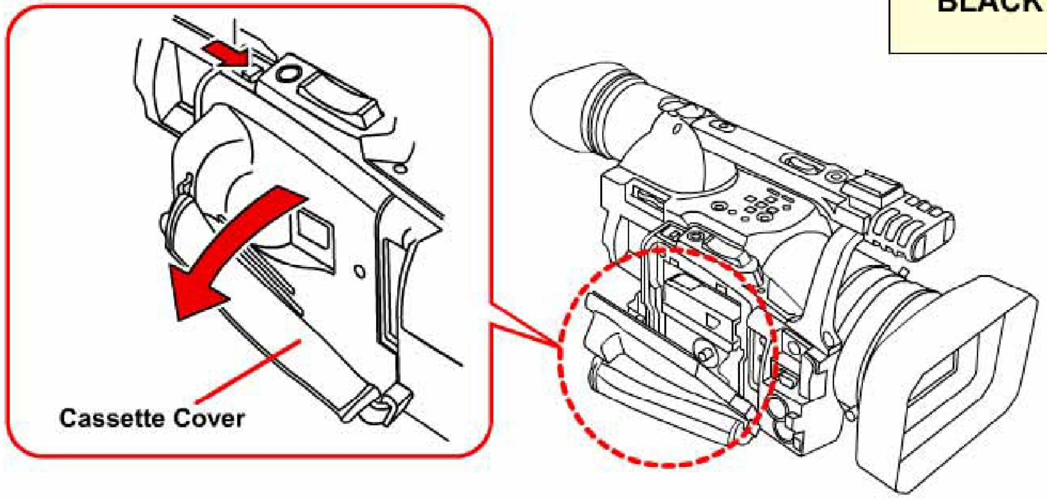
3 Rmove the grip cover unit.

Auto Play ON OFF

3 Grip Cover Unit



BLACK



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

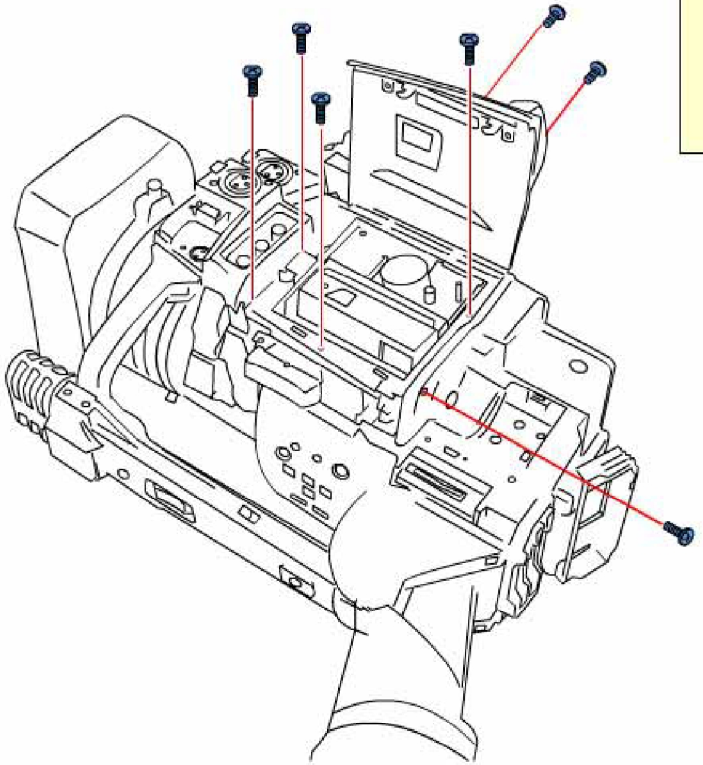
1 Remove the 1 screw and open the cassette cover.

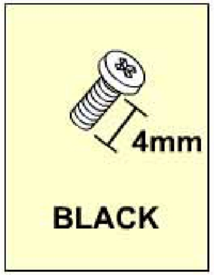
2 Remove the 7 screws.

3 Rmove the grip cover unit.

Auto Play ON OFF

3 Grip Cover Unit





PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

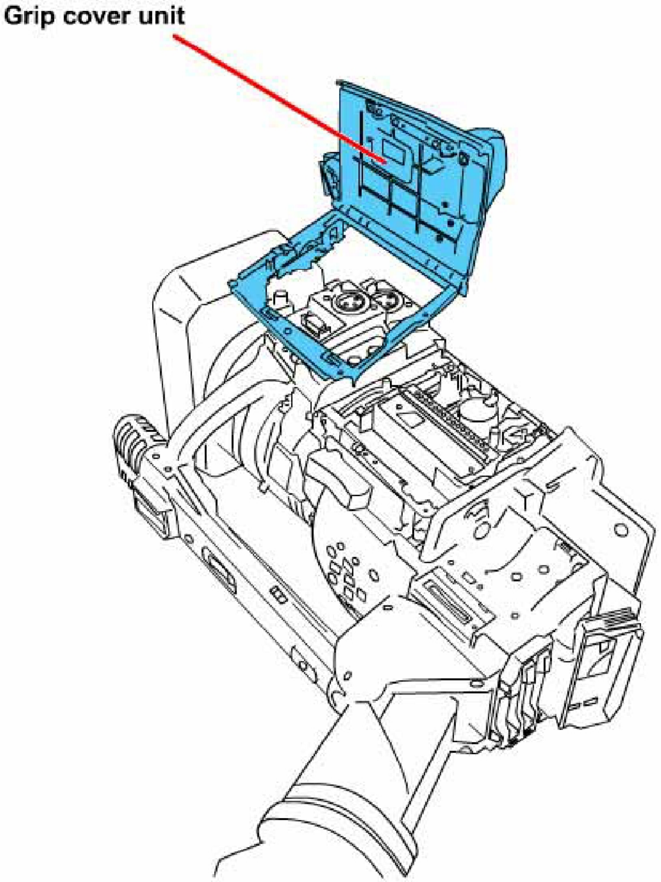
1 Remove the 1 screw and open the cassette cover.

2 Remove the 7 screws.

3 Rmove the grip cover unit.

Auto Play ON OFF

3 Grip Cover Unit



PLAY

Tool	**Plus Screwdriver**

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

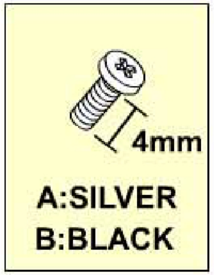
▶ Disassembly ▶ Assembly

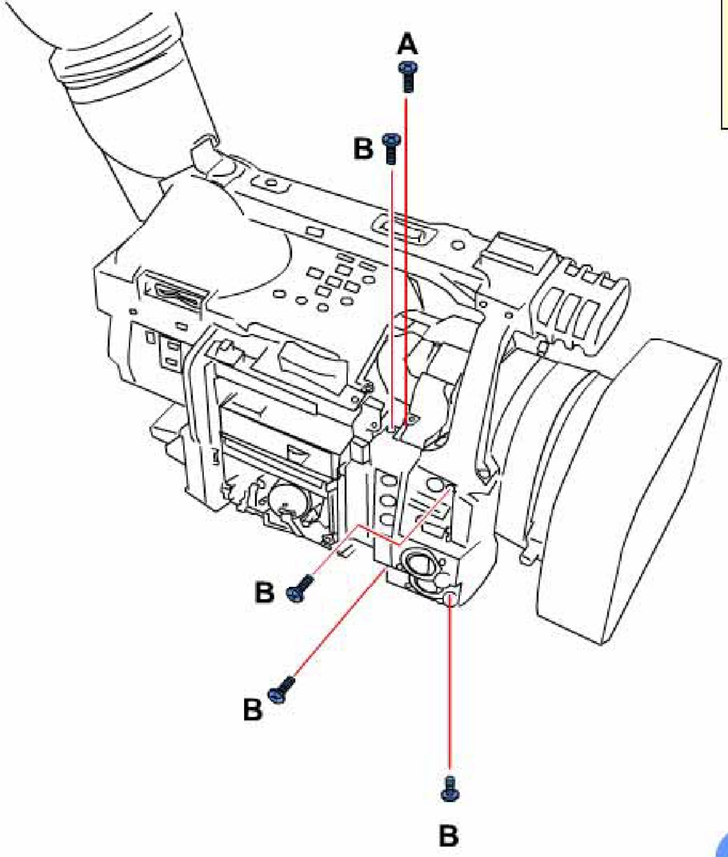
4 Front Jack Unit

1 Remove the 5 screws.

2 Pull out the from jack unit.

3 Remove the 1 connector.





▶ PLAY

Auto Play ON OFF

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press **ON** button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

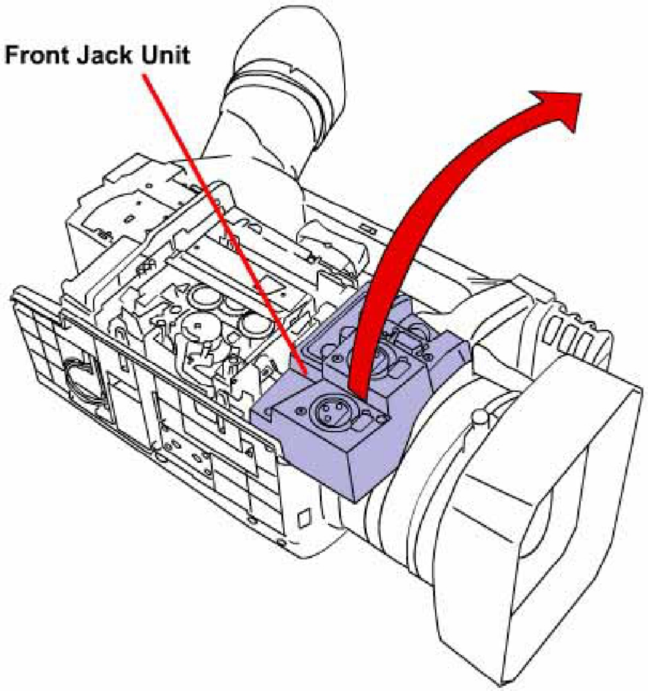
1 Remove the 5 screws.

2 Pull out the from jack unit.

3 Remove the 1 connector.

Auto Play ON OFF

4 Front Jack Unit



PLAY

Tool	**Plus Screwdriver**

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

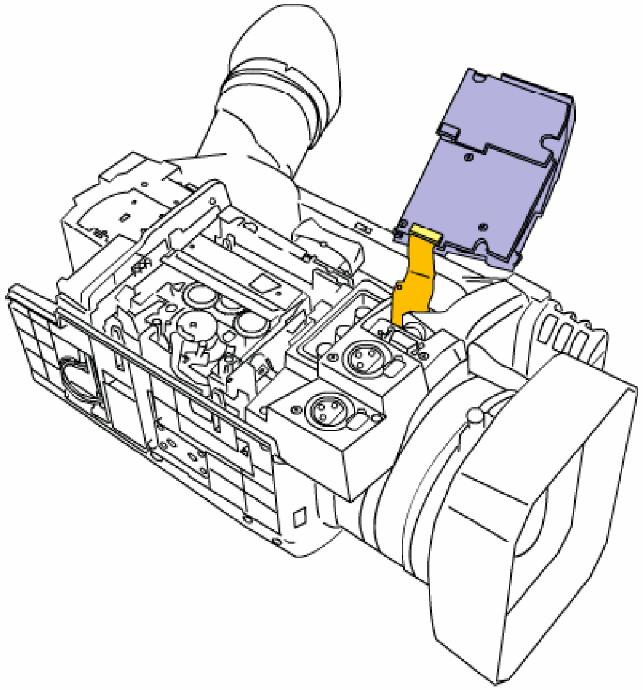
1 Remove the 5 screws.

2 Pull out the from jack unit.

3 Remove the 1 connector.

Auto Play ON OFF

4 Front Jack Unit



PLAY

Tool	**Plus Screwdriver**

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

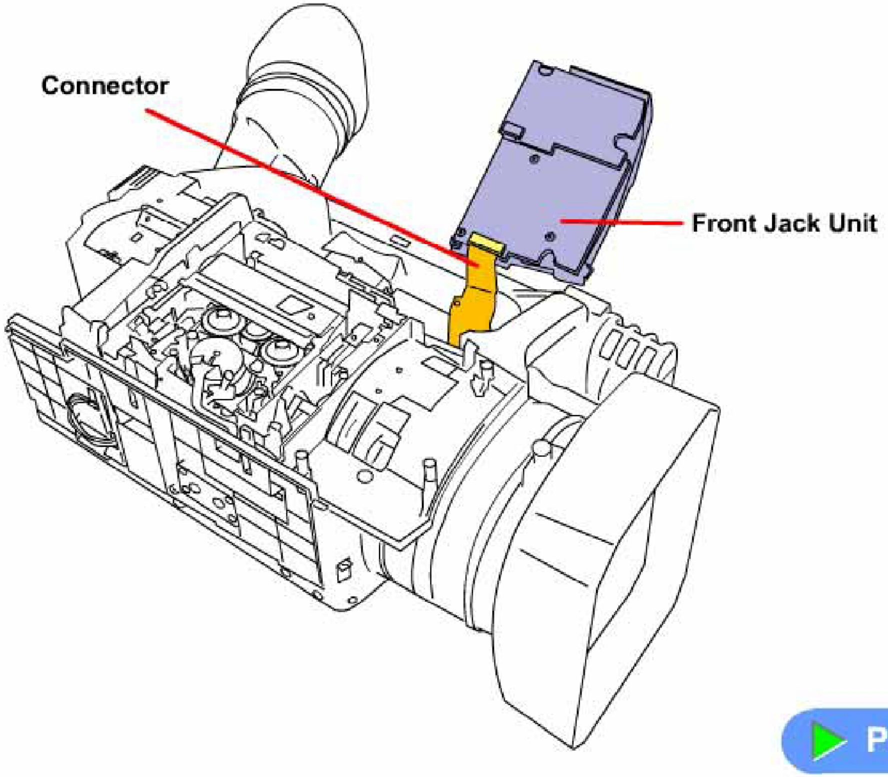
1 Remove the 5 screws.

2 Pull out the from jack unit.

3 Remove the 1 connector.

Auto Play ON OFF

4 Front Jack Unit



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

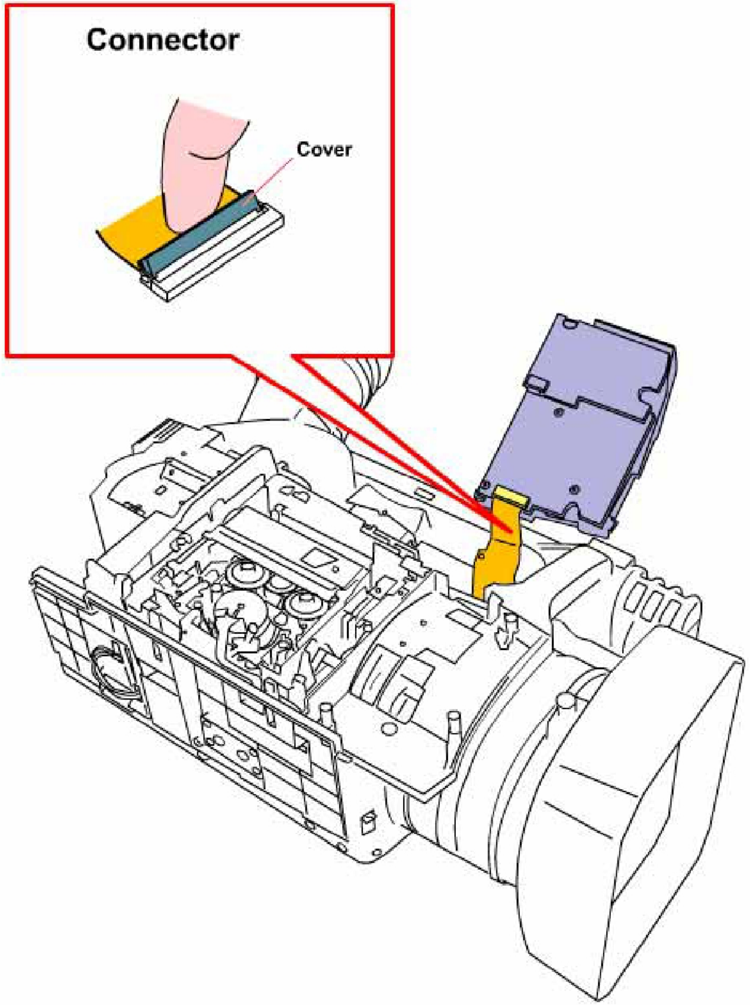
1 Remove the 5 screws.

2 Pull out the from jack unit.

3 Remove the 1 connector.

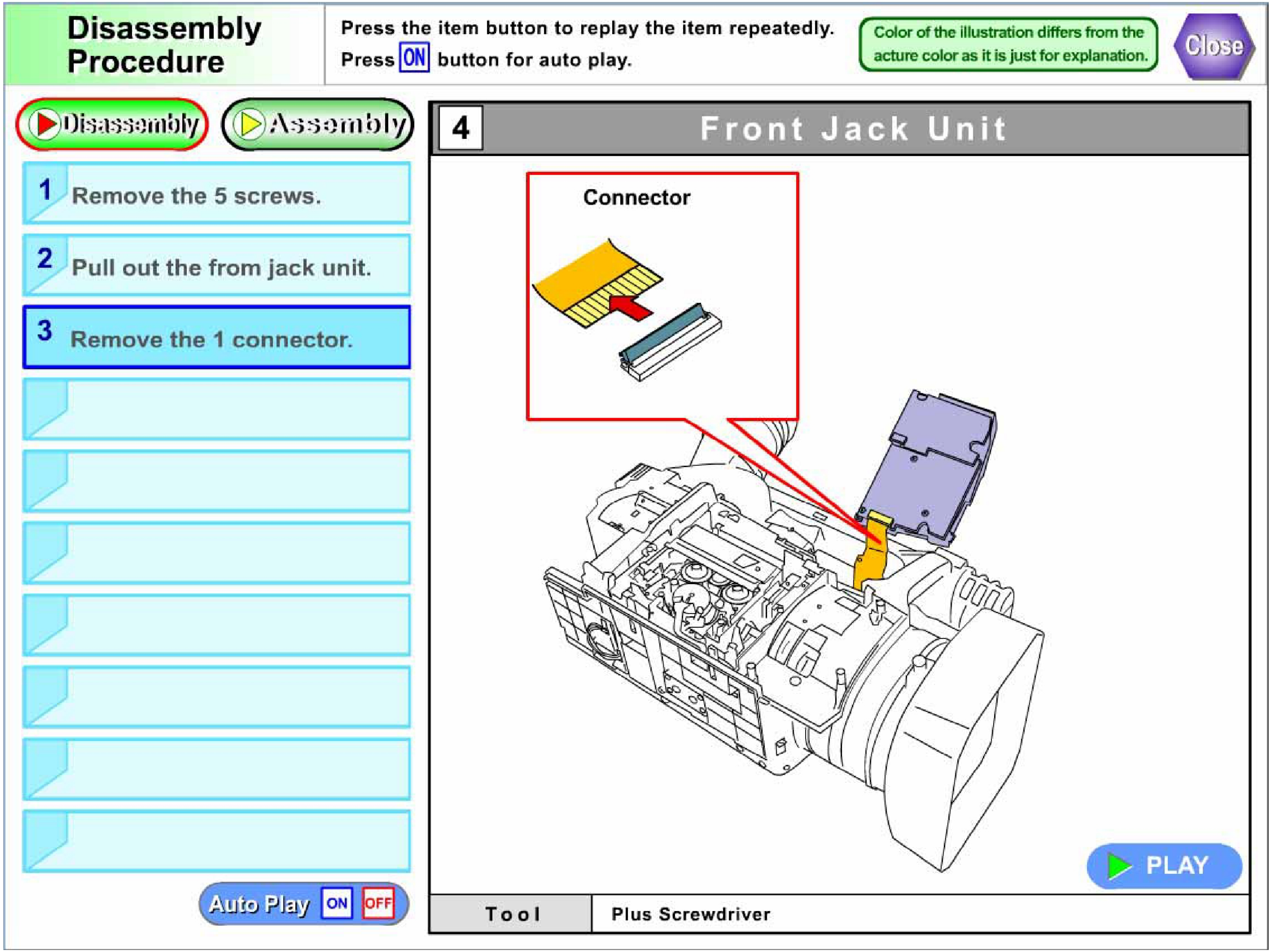
Auto Play ON OFF

4 Front Jack Unit



PLAY

Tool	Plus Screwdriver



Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close
Disassembly
Assembly

1 Remove the 5 screws.

2 Pull out the from jack unit.

3 Remove the 1 connector.

Auto Play ON OFF

4 Front Jack Unit

Connector
PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press **ON** button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

▶ Disassembly ▷ Assembly

1 Remove the 4 screws.

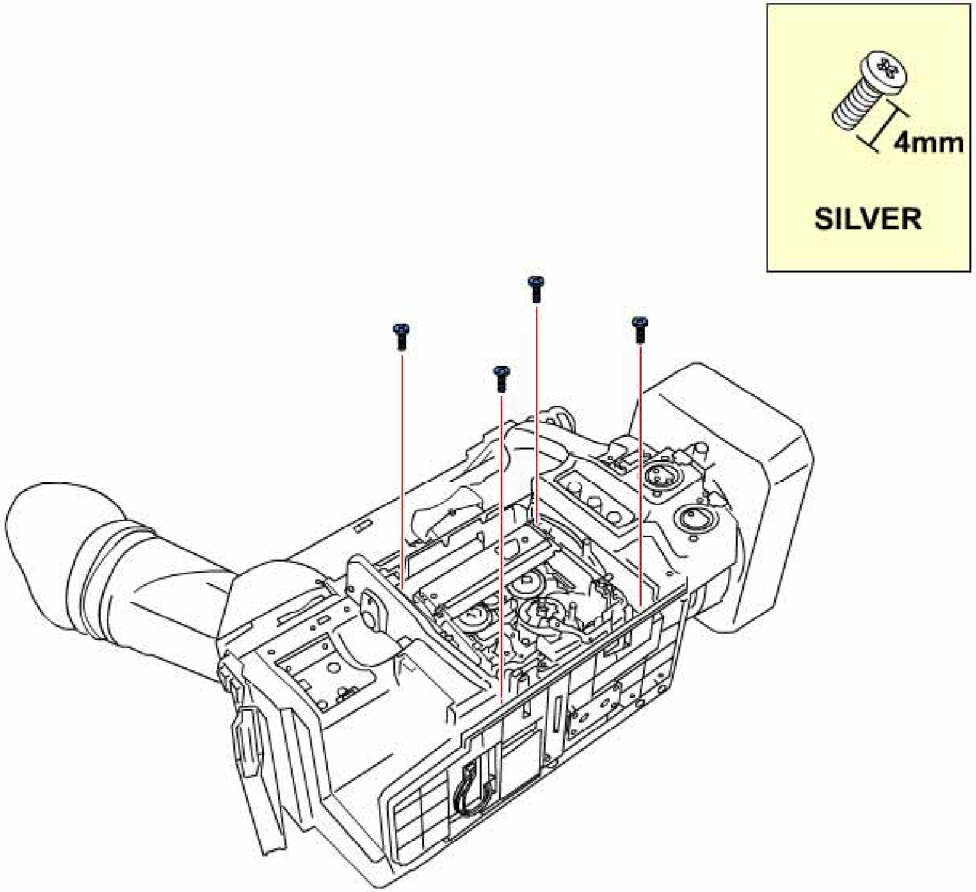
2 Pull out the mecha chassis.

3 Peel the tape.

4 Remove the connector.

Auto Play ON OFF

5 Mecha Chassis



▶ PLAY

Tool	**Plus Screwdriver**

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the 4 screws.

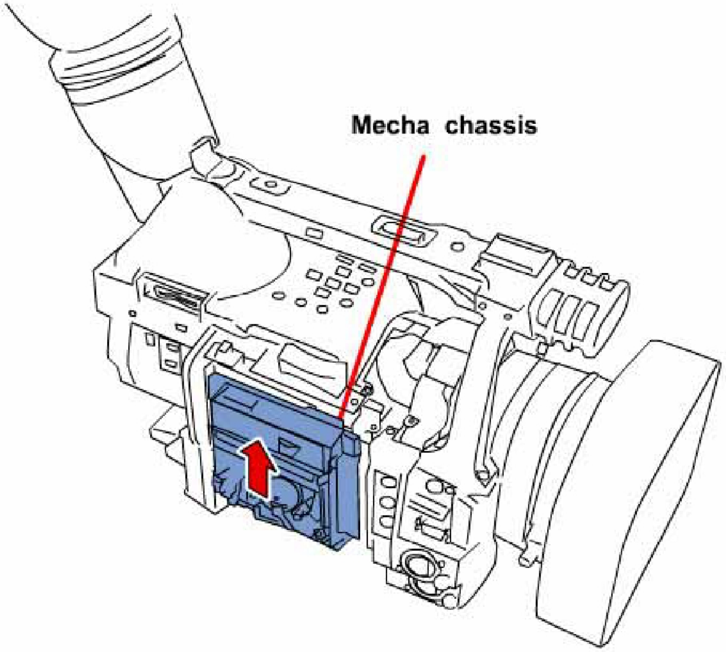
2 Pull out the mecha chassis.

3 Peel the tape.

4 Remove the connector.

Auto Play ON OFF

5 Mecha Chassis



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the 4 screws.

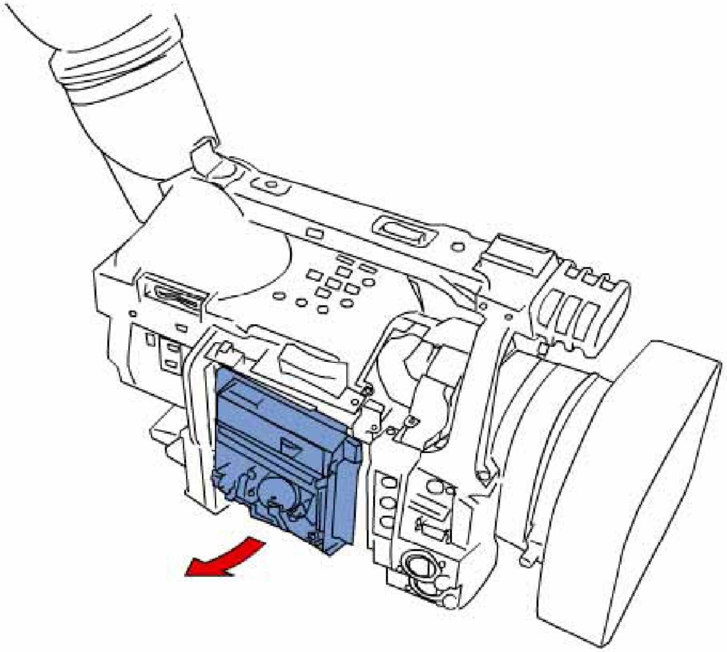
2 Pull out the mecha chassis.

3 Peel the tape.

4 Remove the connector.

Auto Play ON OFF

5 Mecha Chassis



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the 4 screws.

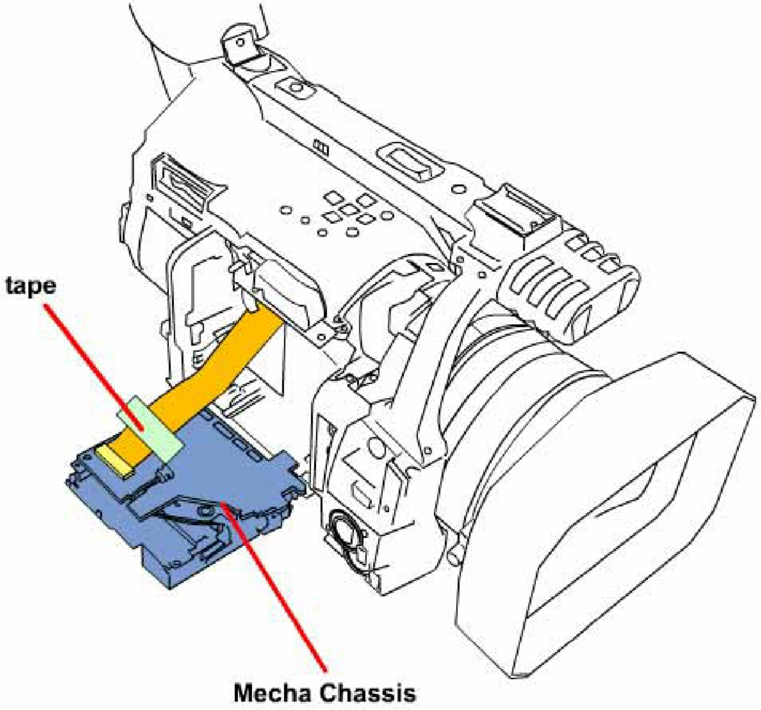
2 Pull out the mecha chassis.

3 Peel the tape.

4 Remove the connector.

Auto Play ON OFF

5 Mecha Chassis



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the 4 screws.

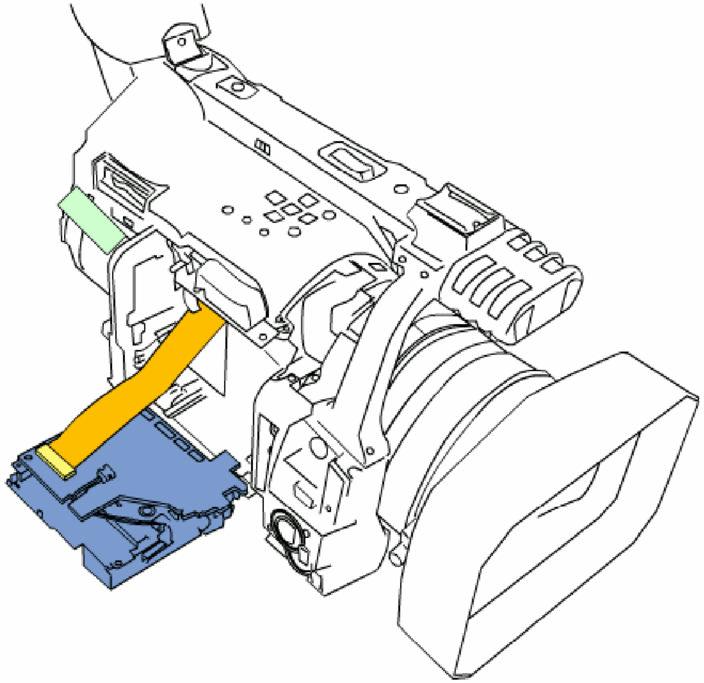
2 Pull out the mecha chassis.

3 Peel the tape.

4 Remove the connector.

Auto Play ON OFF

5 Mecha Chassis



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the 4 screws.

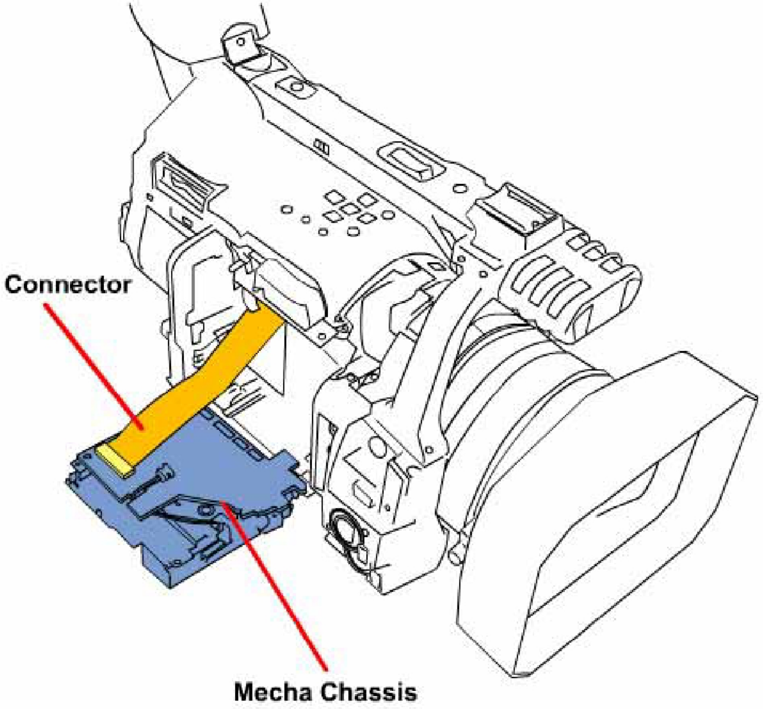
2 Pull out the mecha chassis.

3 Peel the tape.

4 Remove the connector.

Auto Play ON OFF

5 Mecha Chassis



PLAY

Tool	**Plus Screwdriver**

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the 4 screws.

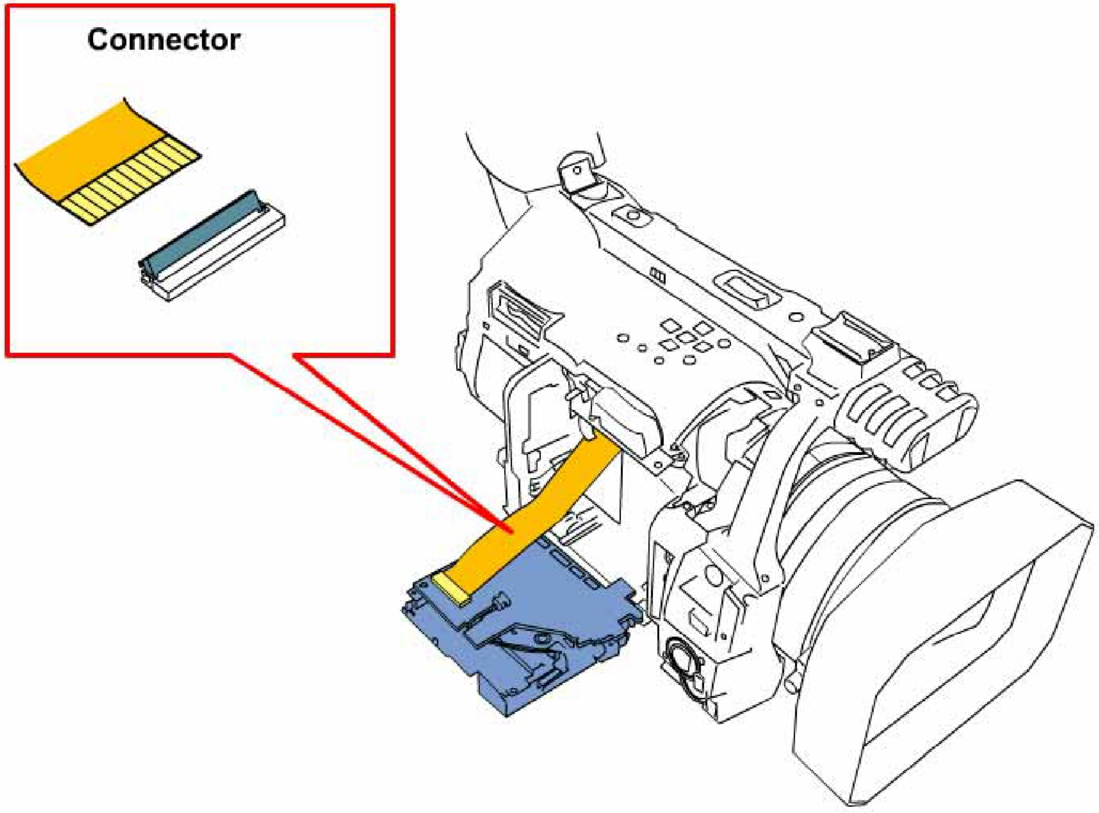
2 Pull out the mecha chassis.

3 Peel the tape.

4 Remove the connector.

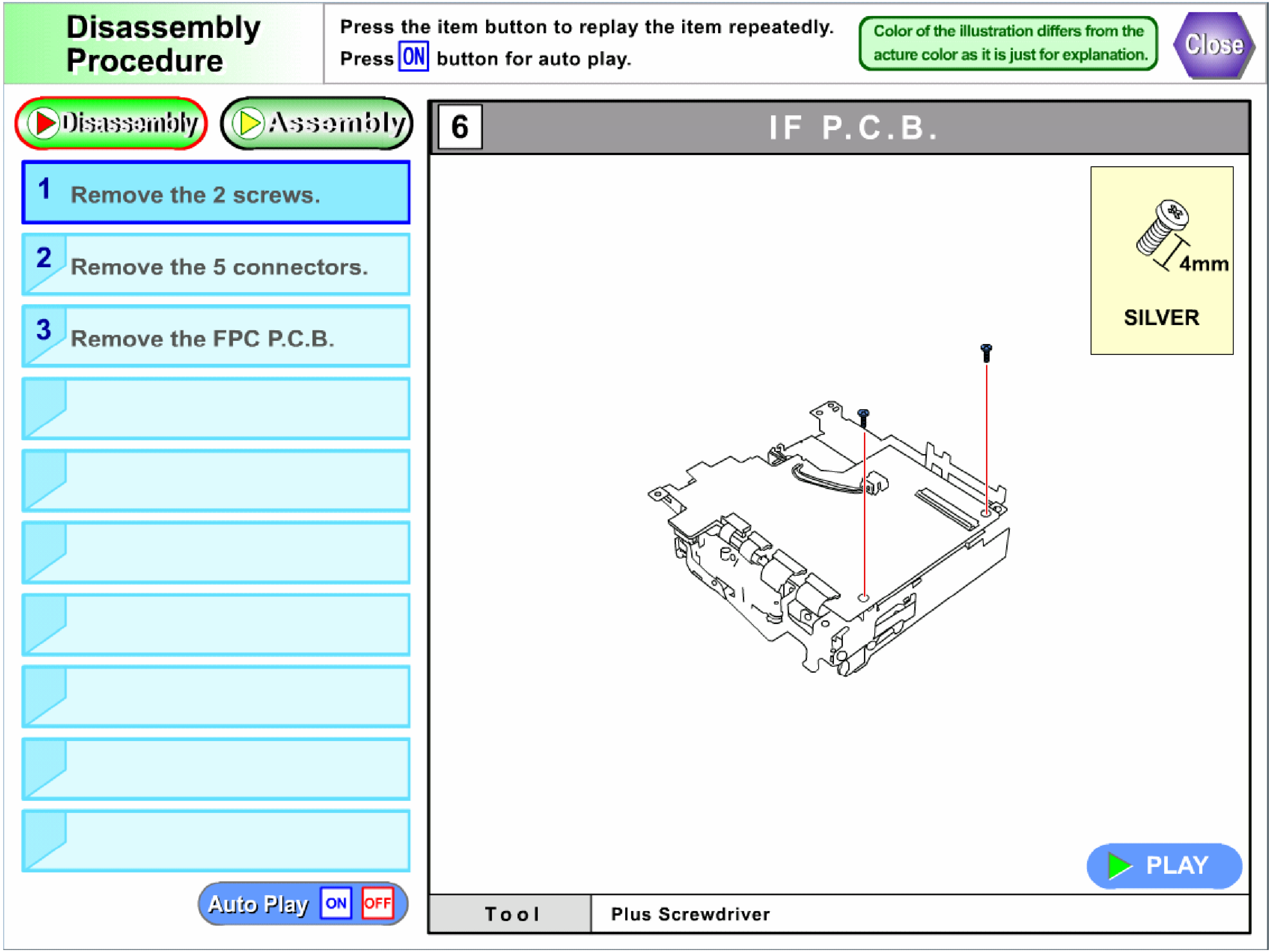
Auto Play ON OFF

5 Mecha Chassis



PLAY

Tool	Plus Screwdriver


Disassembly
Assembly
Auto Play
ON
OFF
Close
PLAY
4mm
SILVER

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

6 IF P.C.B.

1 Remove the 2 screws.

2 Remove the 5 connectors.

3 Remove the FPC P.C.B.

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

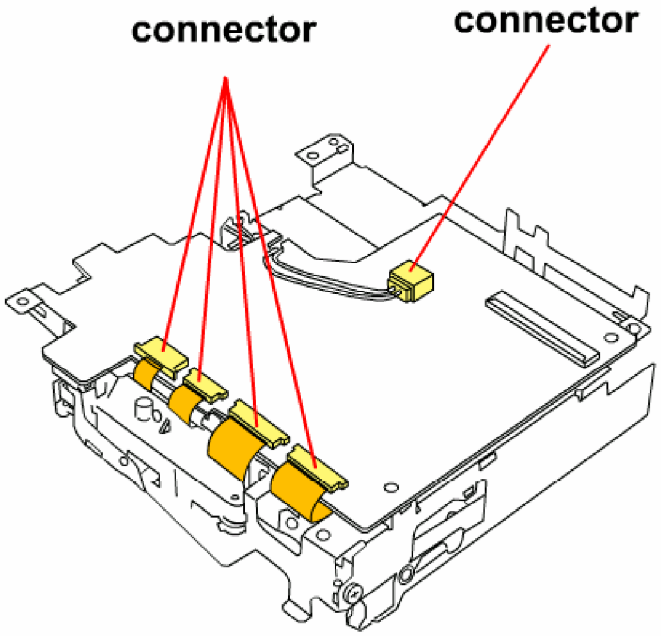
1 Remove the 2 screws.

2 Remove the 5 connectors.

3 Remove the FPC P.C.B.

Auto Play ON OFF

6 IF P.C.B.



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly
Assembly

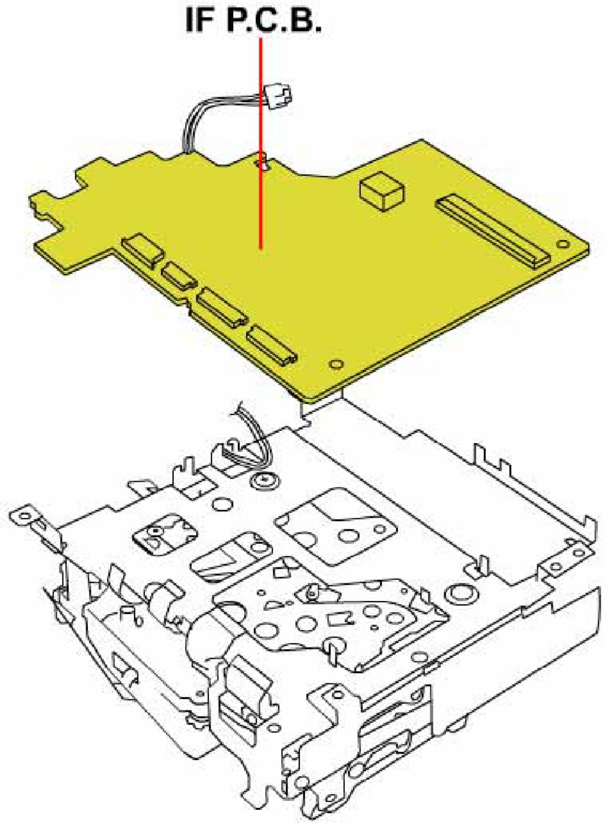
1 Remove the 2 screws.

2 Remove the 5 connectors.

3 Remove the FPC P.C.B.

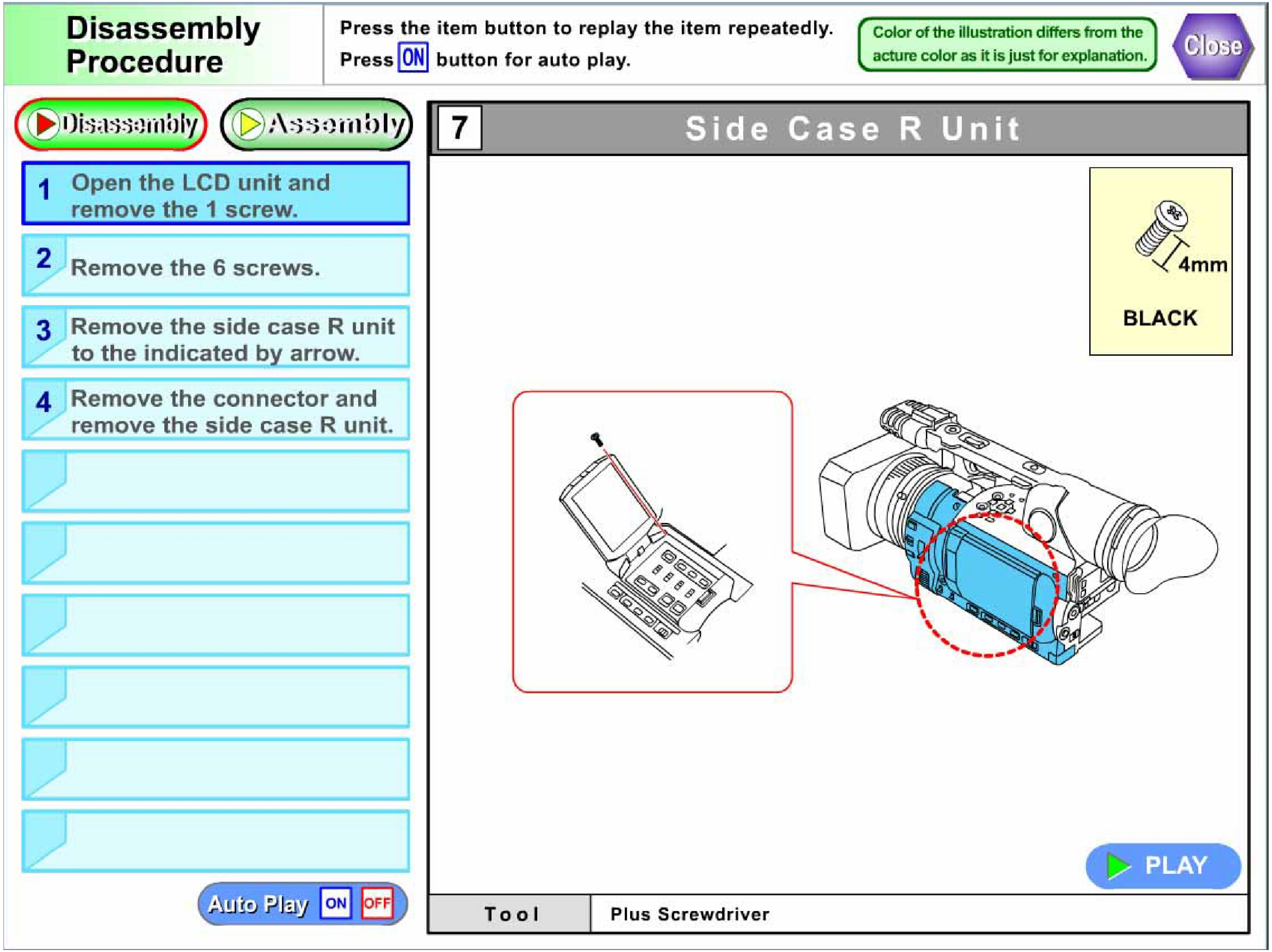
Auto Play ON OFF

6 IF P.C.B.



PLAY

Tool	Plus Screwdriver



Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

7 Side Case R Unit

1 Open the LCD unit and remove the 1 screw.

2 Remove the 6 screws.

3 Remove the side case R unit to the indicated by arrow.

4 Remove the connector and remove the side case R unit.

Tool	Plus Screwdriver

Close
Disassembly
Assembly
4mm
BLACK
PLAY
Auto Play
ON
OFF

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Open the LCD unit and remove the 1 screw.

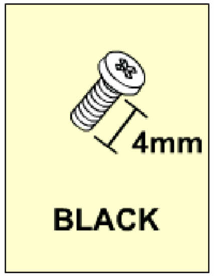
2 Remove the 6 screws.

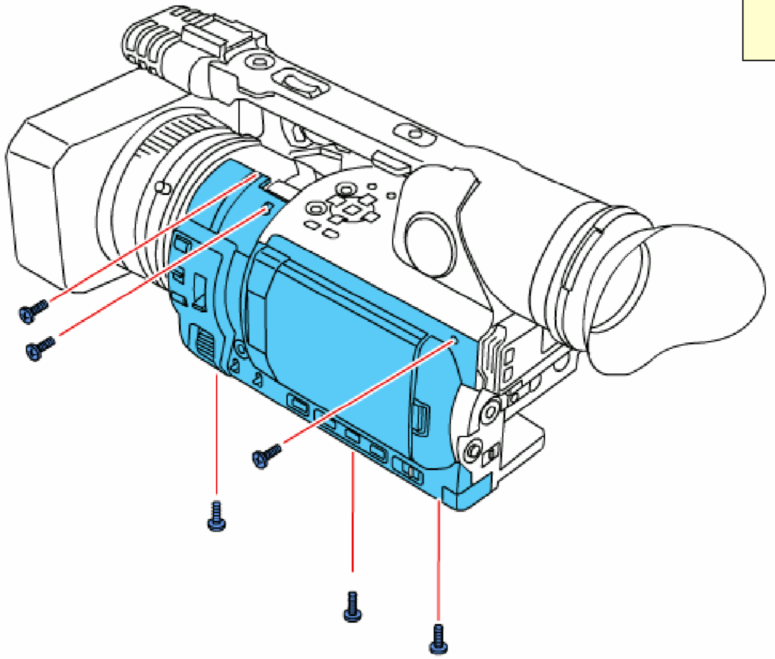
3 Remove the side case R unit to the indicated by arrow.

4 Remove the connector and remove the side case R unit.

Auto Play ON OFF

7 Side Case R Unit





PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Open the LCD unit and remove the 1 screw.

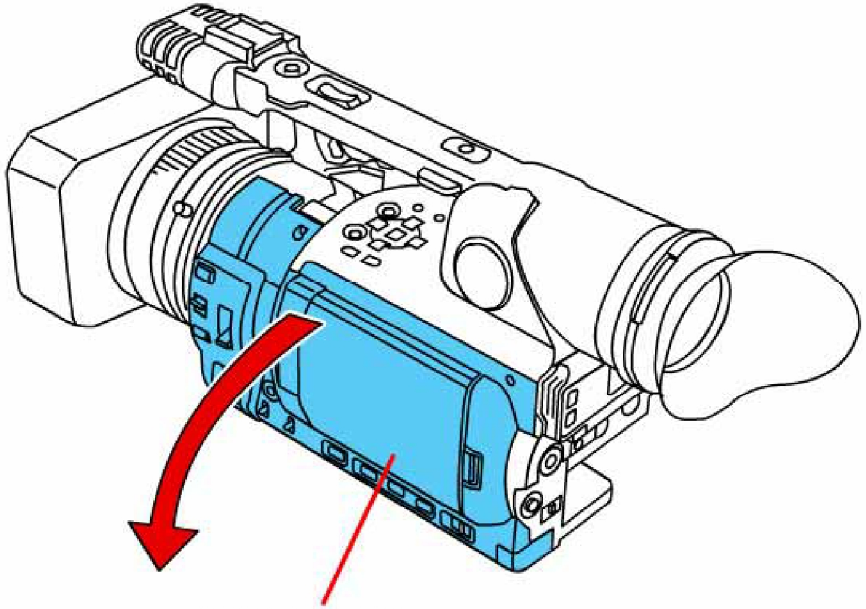
2 Remove the 6 screws.

3 Remove the side case R unit to the indicated by arrow.

4 Remove the connector and remove the side case R unit.

Auto Play ON OFF

7 Side Case R Unit



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly | Assembly

1 Open the LCD unit and remove the 1 screw.

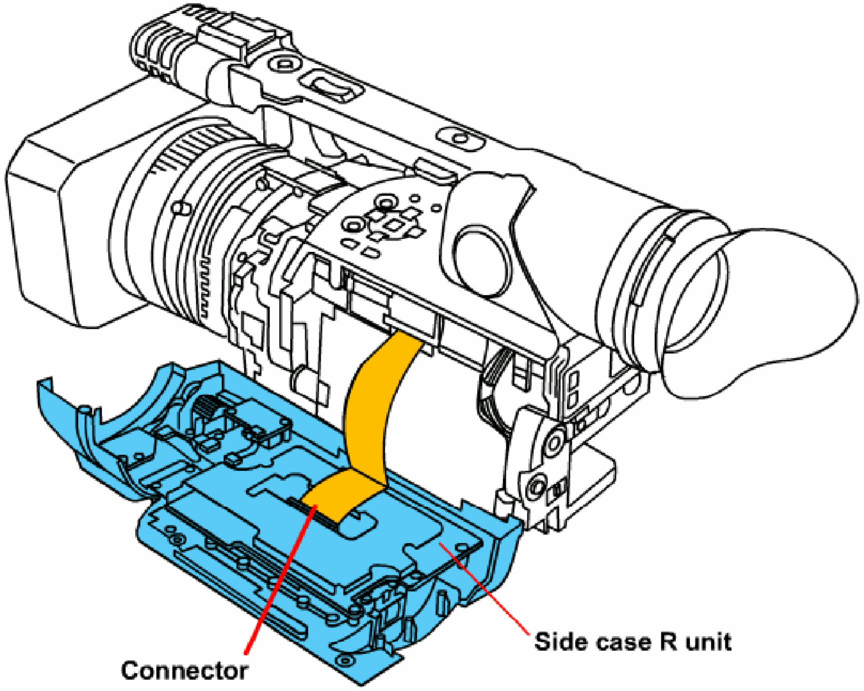
2 Remove the 6 screws.

3 Remove the side case R unit to the indicated by arrow.

4 **Remove the connector and remove the side case R unit.**

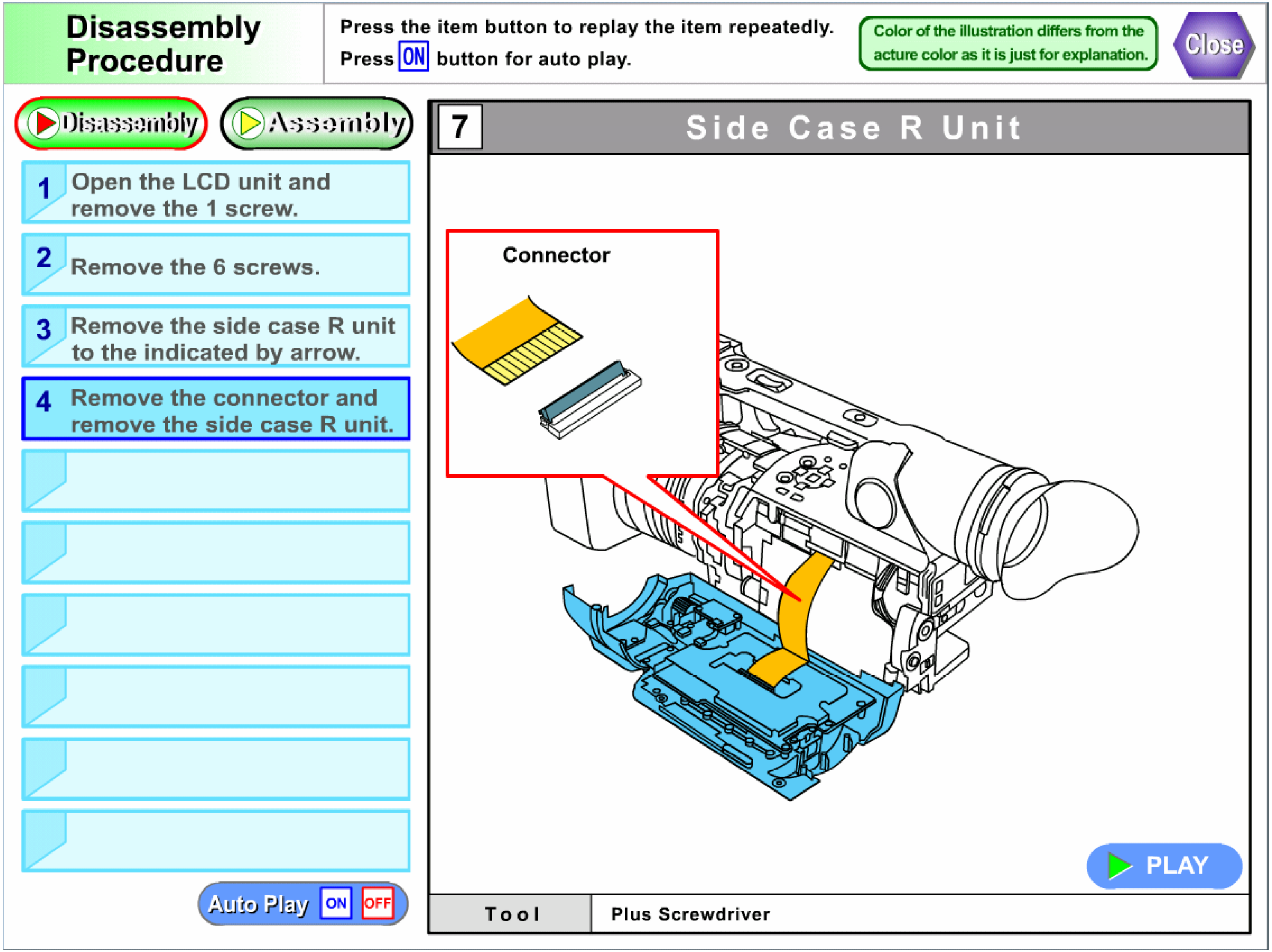
Auto Play ON OFF

7 Side Case R Unit



PLAY

Tool	Plus Screwdriver


Disassembly
Assembly
Close
Connector
PLAY
Auto Play
ON
OFF

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

7 Side Case R Unit

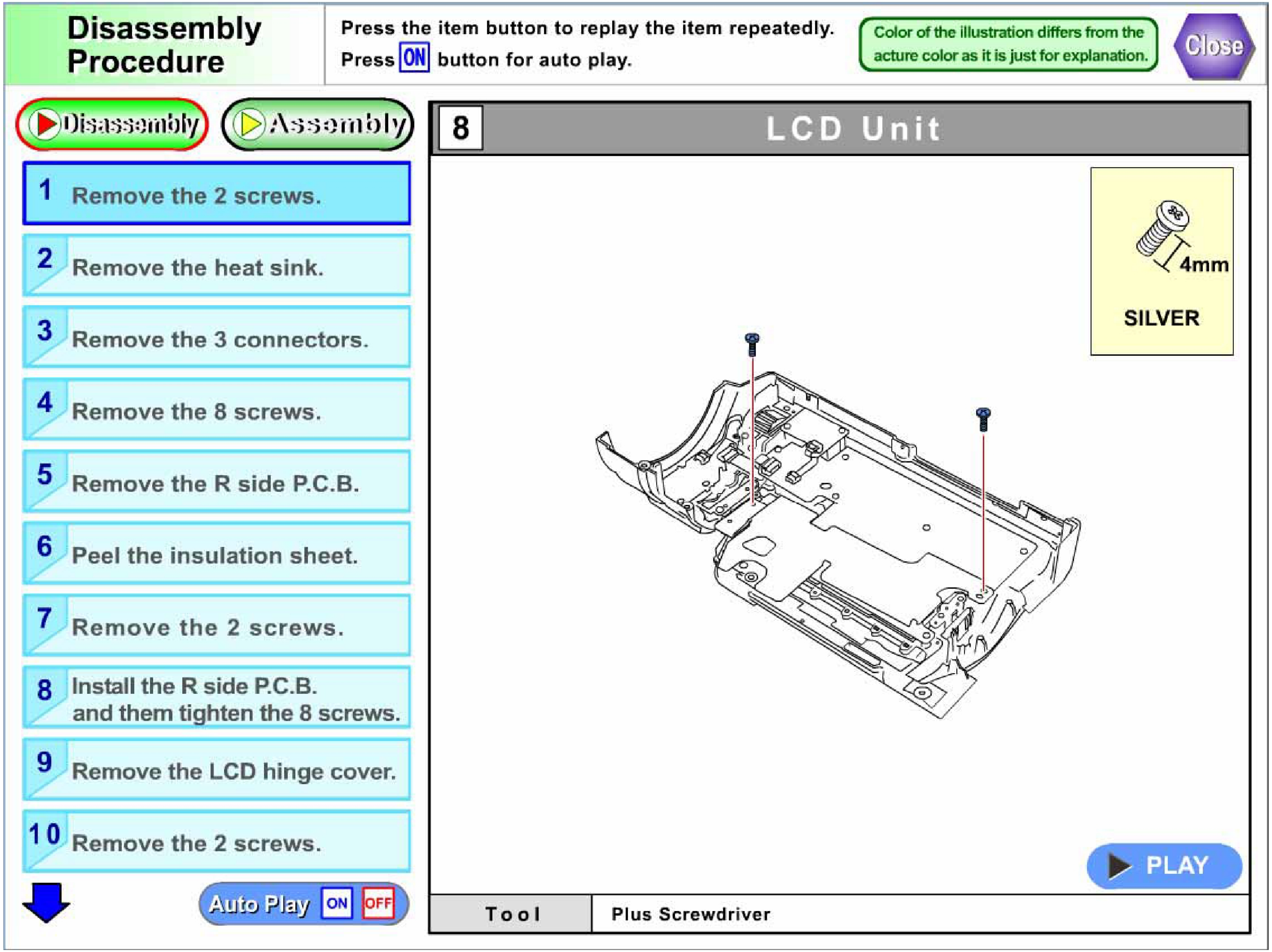
1 Open the LCD unit and remove the 1 screw.

2 Remove the 6 screws.

3 Remove the side case R unit to the indicated by arrow.

4 Remove the connector and remove the side case R unit.

Tool Plus Screwdriver


Close
Disassembly
Assembly
8
LCD Unit
4mm
SILVER
PLAY
Auto Play
ON
OFF

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

1 Remove the 2 screws.
2 Remove the heat sink.
3 Remove the 3 connectors.
4 Remove the 8 screws.
5 Remove the R side P.C.B.
6 Peel the insulation sheet.
7 Remove the 2 screws.
8 Install the R side P.C.B. and them tighten the 8 screws.
9 Remove the LCD hinge cover.
10 Remove the 2 screws.

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the 2 screws.

2 Remove the heat sink.

3 Remove the 3 connectors.

4 Remove the 8 screws.

5 Remove the R side P.C.B.

6 Peel the insulation sheet.

7 Remove the 2 screws.

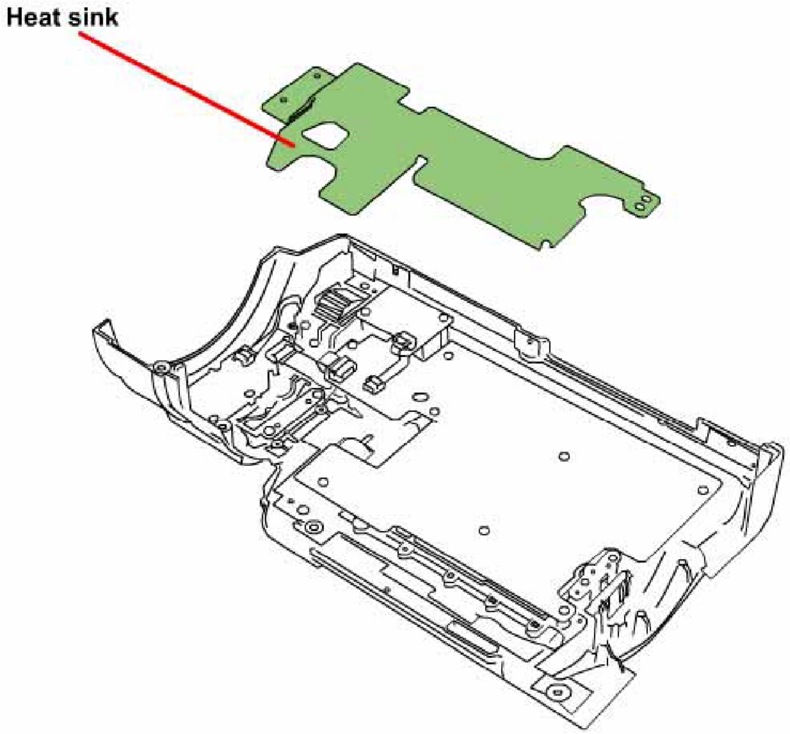
8 Install the R side P.C.B. and them tighten the 8 screws.

9 Remove the LCD hinge cover.

10 Remove the 2 screws.

Auto Play ON OFF

8 LCD Unit



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the 2 screws.

2 Remove the heat sink.

3 Remove the 3 connectors.

4 Remove the 8 screws.

5 Remove the R side P.C.B.

6 Peel the insulation sheet.

7 Remove the 2 screws.

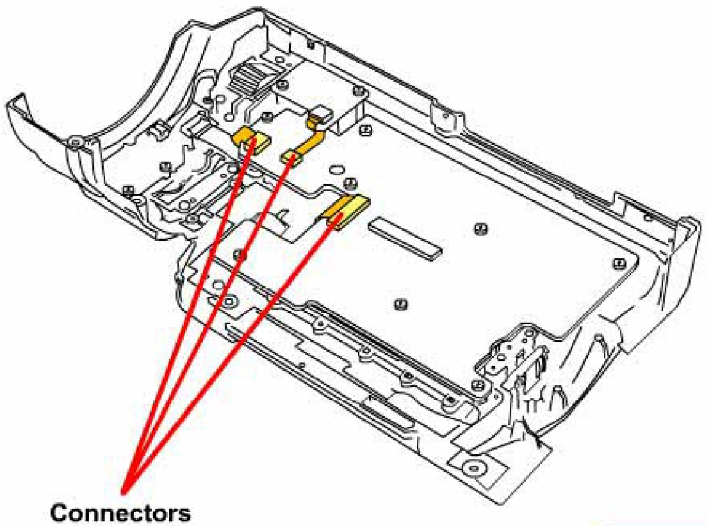
8 Install the R side P.C.B. and them tighten the 8 screws.

9 Remove the LCD hinge cover.

10 Remove the 2 screws.

Auto Play ON OFF

8 LCD Unit



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the 2 screws.

2 Remove the heat sink.

3 Remove the 3 connectors.

4 Remove the 8 screws.

5 Remove the R side P.C.B.

6 Peel the insulation sheet.

7 Remove the 2 screws.

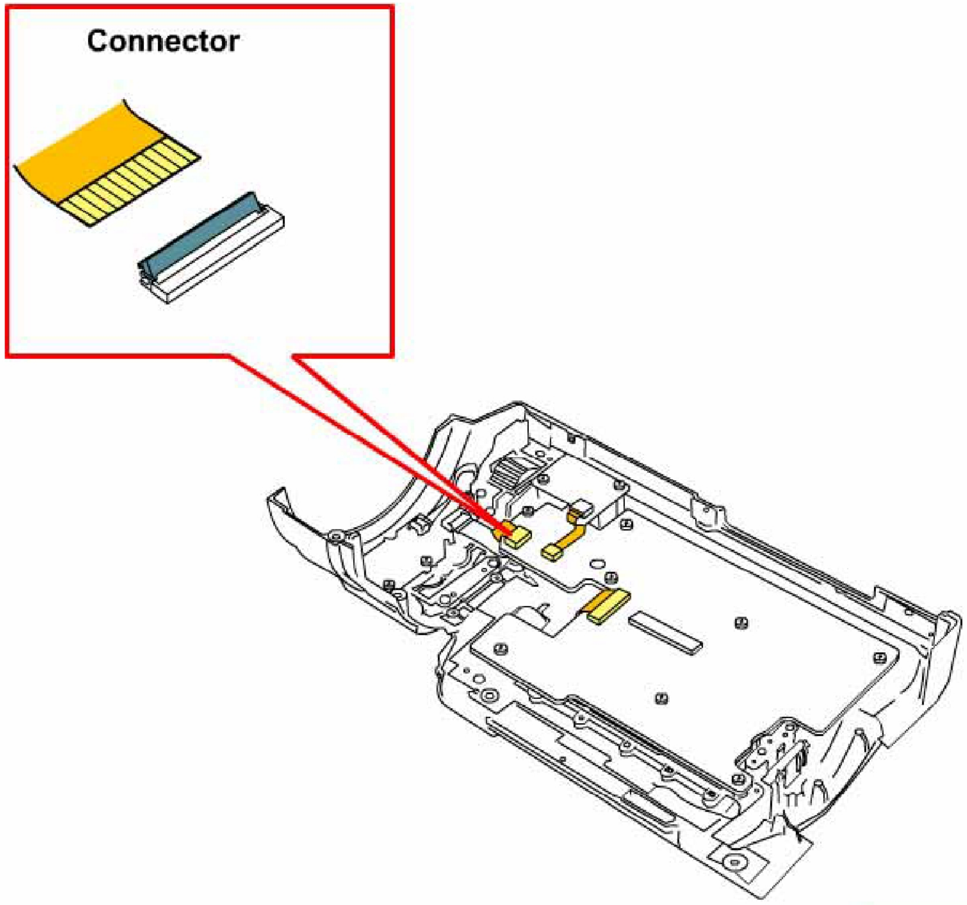
8 Install the R side P.C.B. and them tighten the 8 screws.

9 Remove the LCD hinge cover.

10 Remove the 2 screws.

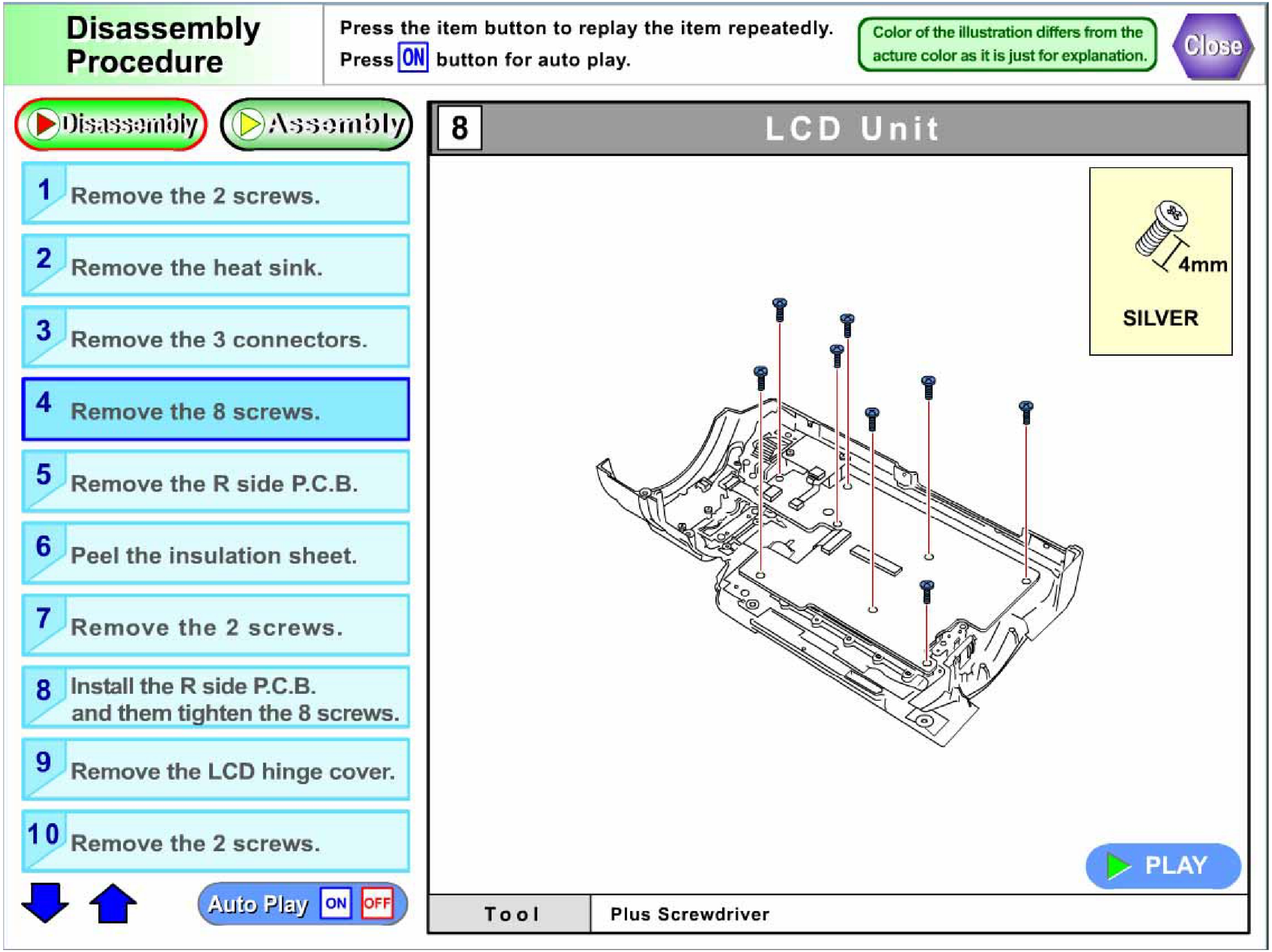
Auto Play ON OFF

8 LCD Unit



PLAY

Tool	Plus Screwdriver



Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

1 Remove the 2 screws.
2 Remove the heat sink.
3 Remove the 3 connectors.
4 Remove the 8 screws.
5 Remove the R side P.C.B.
6 Peel the insulation sheet.
7 Remove the 2 screws.
8 Install the R side P.C.B. and them tighten the 8 screws.
9 Remove the LCD hinge cover.
10 Remove the 2 screws.

8 LCD Unit

4mm
SILVER

Tool Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the 2 screws.

2 Remove the heat sink.

3 Remove the 3 connectors.

4 Remove the 8 screws.

5 Remove the R side P.C.B.

6 Peel the insulation sheet.

7 Remove the 2 screws.

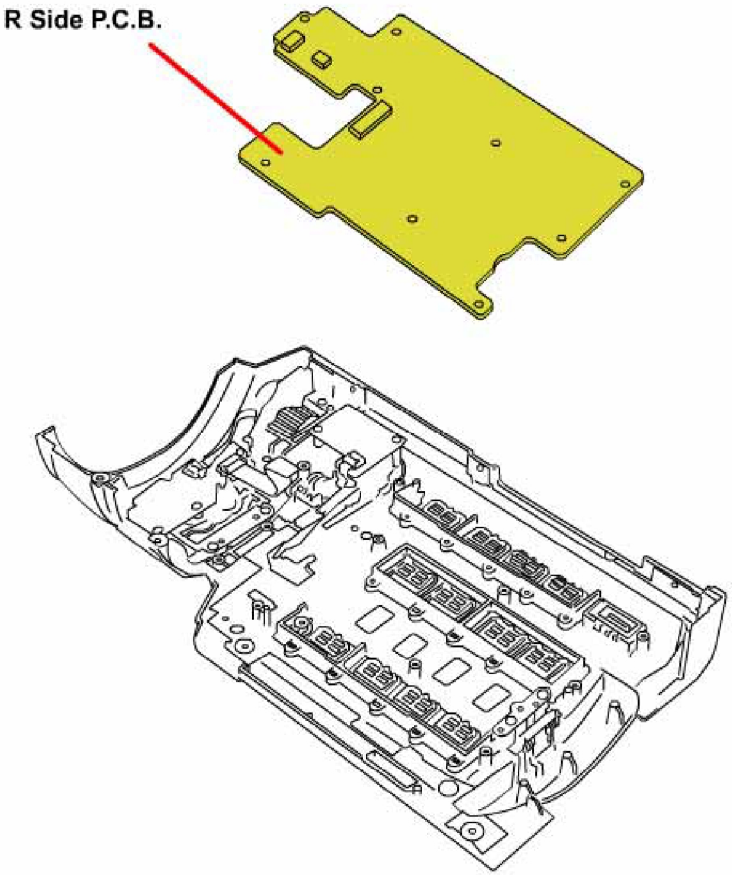
8 Install the R side P.C.B. and them tighten the 8 screws.

9 Remove the LCD hinge cover.

10 Remove the 2 screws.

Auto Play ON OFF

8 LCD Unit



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the 2 screws.

2 Remove the heat sink.

3 Remove the 3 connectors.

4 Remove the 8 screws.

5 Remove the R side P.C.B.

6 Peel the insulation sheet.

7 Remove the 2 screws.

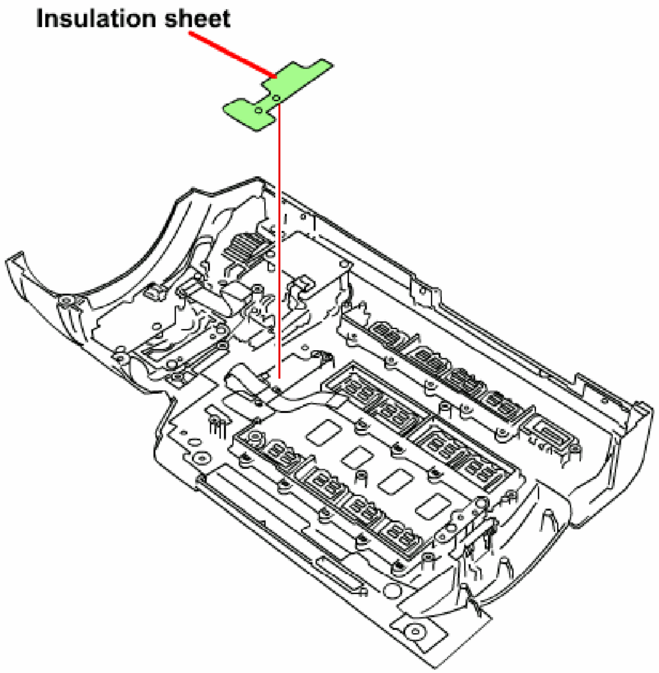
8 Install the R side P.C.B. and them tighten the 8 screws.

9 Remove the LCD hinge cover.

10 Remove the 2 screws.

Auto Play ON OFF

8 LCD Unit



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press **ON** button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the 2 screws.

2 Remove the heat sink.

3 Remove the 3 connectors.

4 Remove the 8 screws.

5 Remove the R side P.C.B.

6 Peel the insulation sheet.

7 Remove the 2 screws.

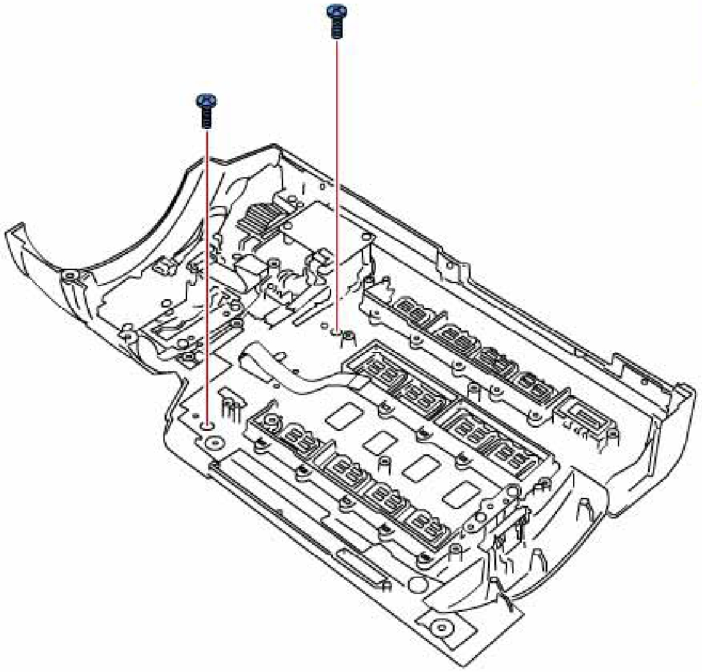
8 Install the R side P.C.B. and them tighten the 8 screws.

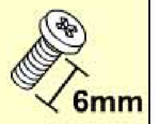
9 Remove the LCD hinge cover.

10 Remove the 2 screws.

Auto Play ON OFF

8 LCD Unit

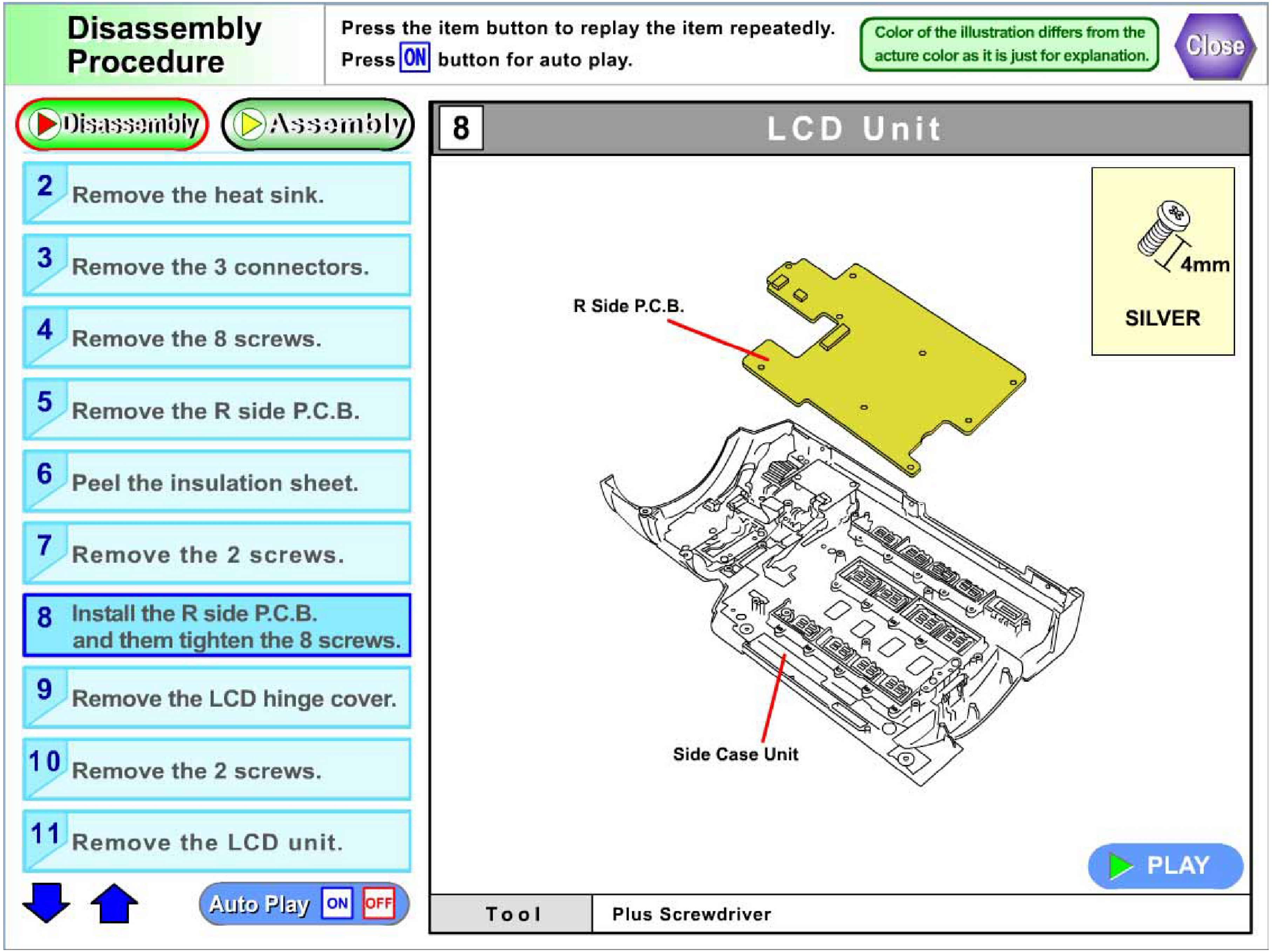




SILVER

PLAY

Tool	Plus Screwdriver


Close
Disassembly
Assembly
Auto Play ON OFF
PLAY
R Side P.C.B.
Side Case Unit
4mm
SILVER

Disassembly Procedure

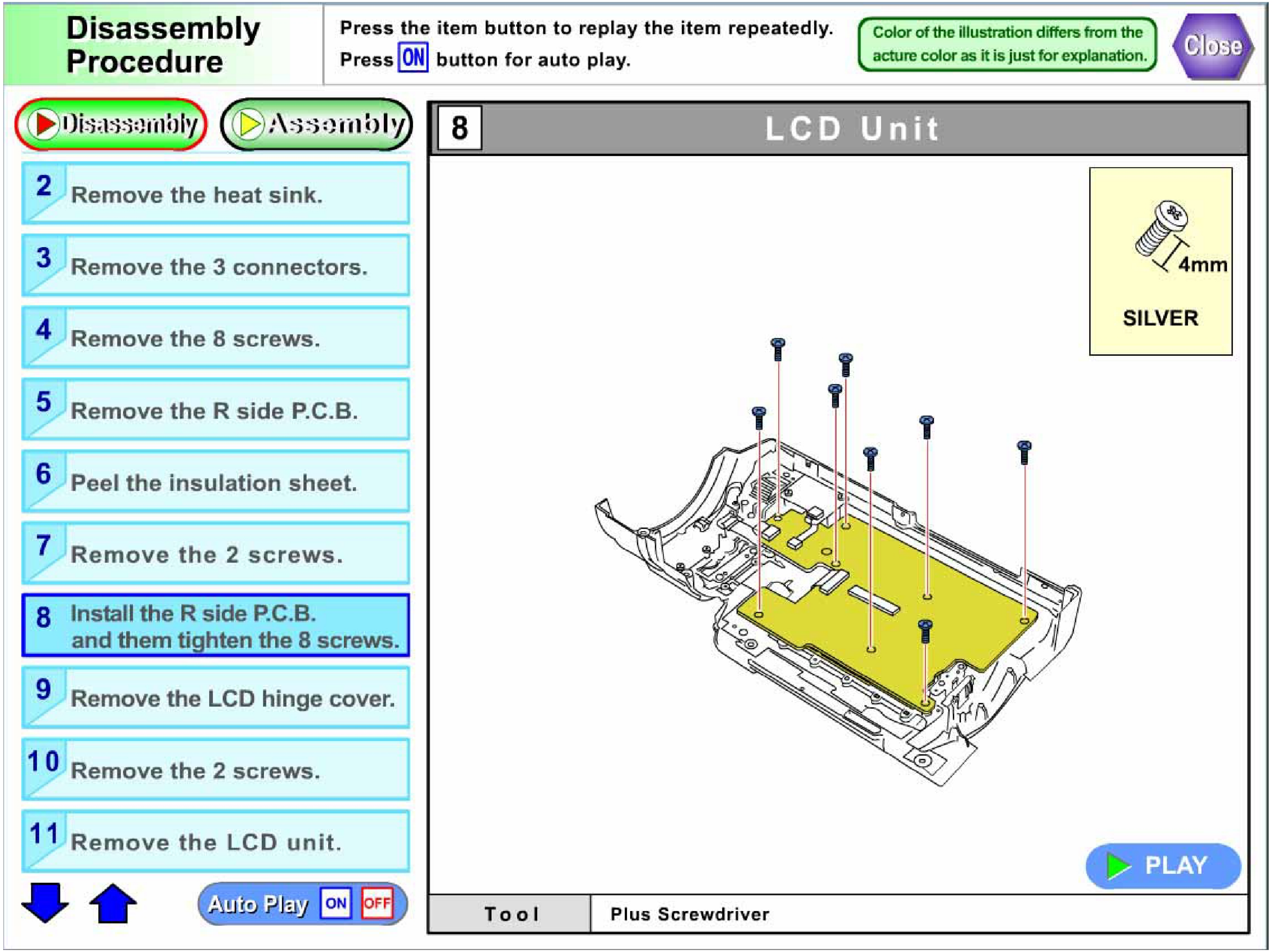
Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

2 Remove the heat sink.
3 Remove the 3 connectors.
4 Remove the 8 screws.
5 Remove the R side P.C.B.
6 Peel the insulation sheet.
7 Remove the 2 screws.
8 Install the R side P.C.B. and them tighten the 8 screws.
9 Remove the LCD hinge cover.
10 Remove the 2 screws.
11 Remove the LCD unit.

8 LCD Unit

Tool	Plus Screwdriver


Disassembly
Assembly
Close
PLAY
Auto Play ON OFF
4mm
SILVER

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

2 Remove the heat sink.
3 Remove the 3 connectors.
4 Remove the 8 screws.
5 Remove the R side P.C.B.
6 Peel the insulation sheet.
7 Remove the 2 screws.
8 Install the R side P.C.B. and them tighten the 8 screws.
9 Remove the LCD hinge cover.
10 Remove the 2 screws.
11 Remove the LCD unit.

8 LCD Unit

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

2 Remove the heat sink.

3 Remove the 3 connectors.

4 Remove the 8 screws.

5 Remove the R side P.C.B.

6 Peel the insulation sheet.

7 Remove the 2 screws.

8 Install the R side P.C.B. and them tighten the 8 screws.

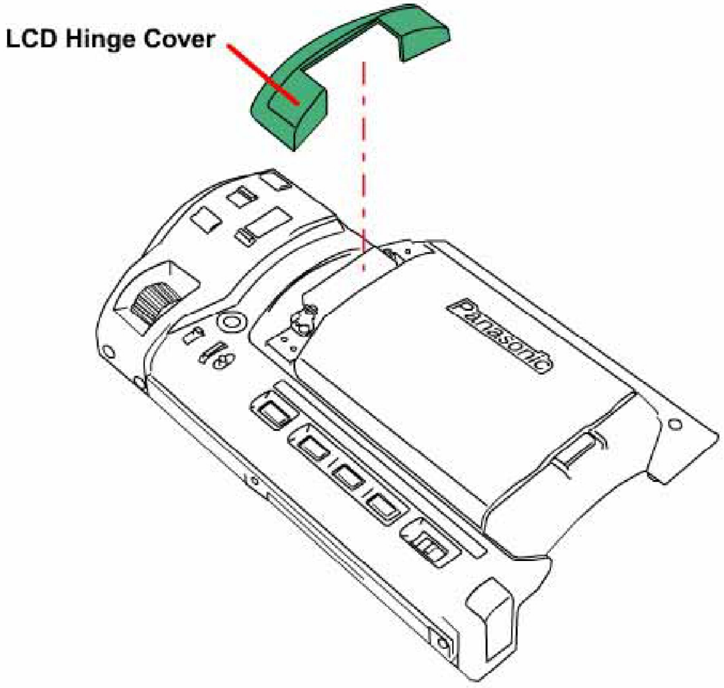
9 Remove the LCD hinge cover.

10 Remove the 2 screws.

11 Remove the LCD unit.

Auto Play ON OFF

8 LCD Unit



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press **ON** button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

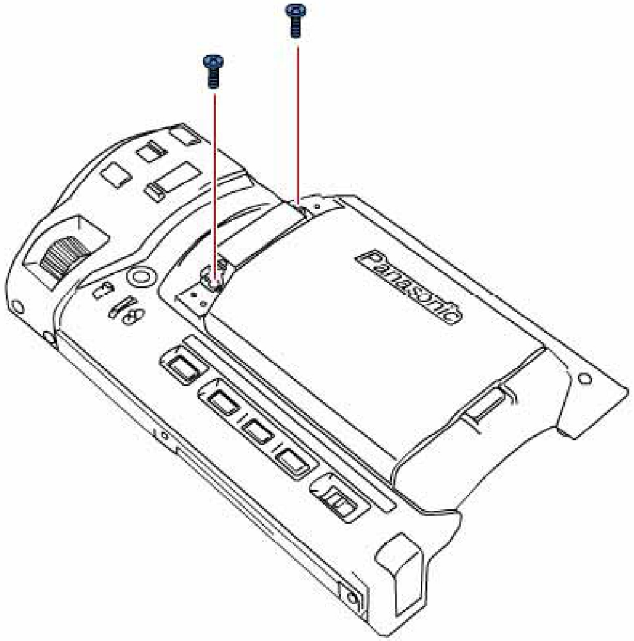
Close

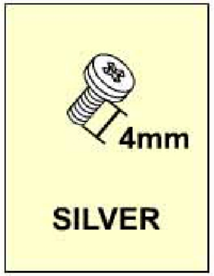
Disassembly | Assembly

- **2** Remove the heat sink.
- **3** Remove the 3 connectors.
- **4** Remove the 8 screws.
- **5** Remove the R side P.C.B.
- **6** Peel the insulation sheet.
- **7** Remove the 2 screws.
- **8** Install the R side P.C.B. and them tighten the 8 screws.
- **9** Remove the LCD hinge cover.
- **10** Remove the 2 screws.
- **11** Remove the LCD unit.

Auto Play ON OFF

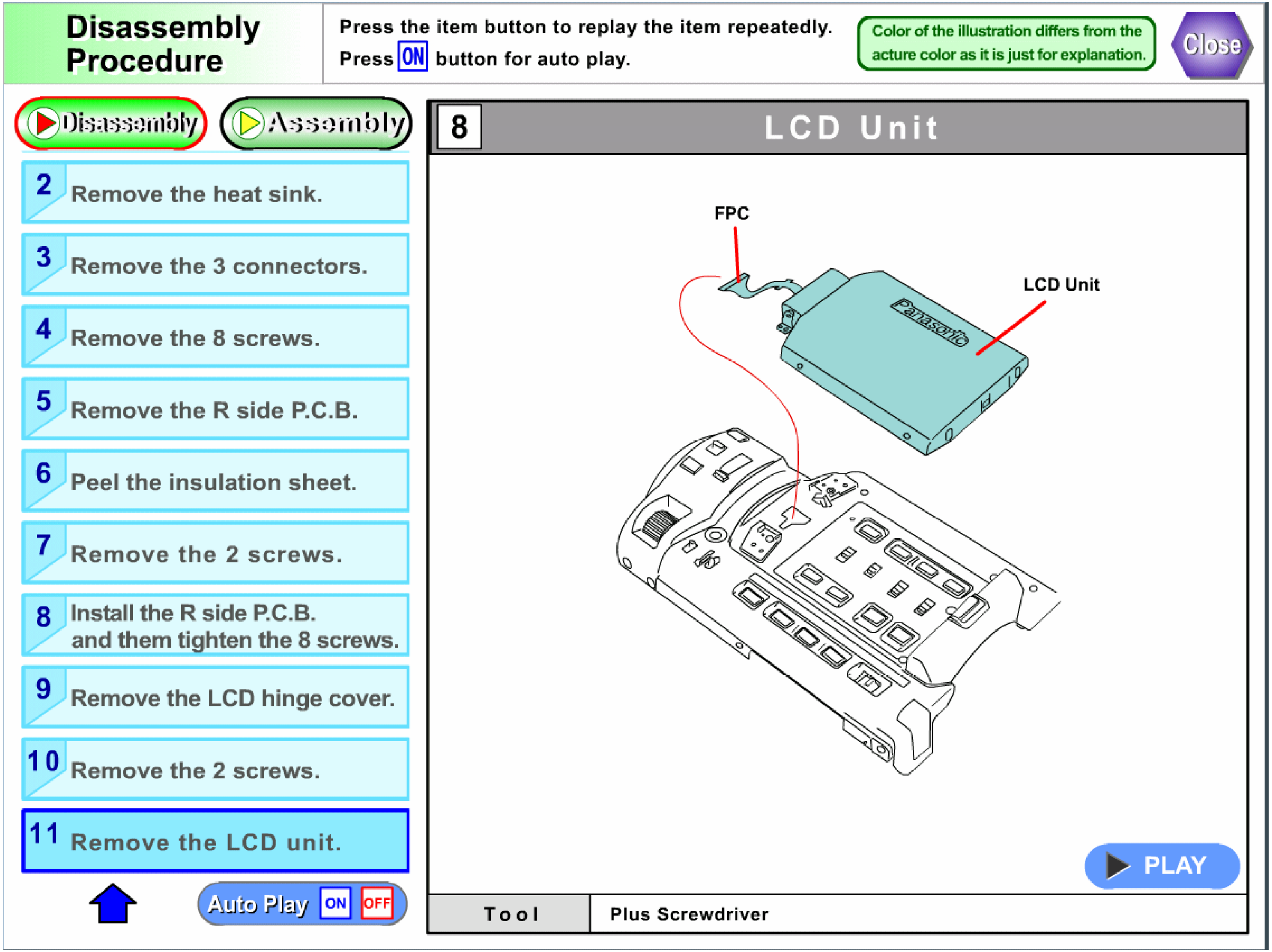
8 LCD Unit





PLAY

Tool	Plus Screwdriver



Disassembly
Assembly
Close
FPC
LCD Unit
PLAY
Auto Play
ON
OFF

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

2 Remove the heat sink.

3 Remove the 3 connectors.

4 Remove the 8 screws.

5 Remove the R side P.C.B.

6 Peel the insulation sheet.

7 Remove the 2 screws.

8 Install the R side P.C.B. and them tighten the 8 screws.

9 Remove the LCD hinge cover.

10 Remove the 2 screws.

11 Remove the LCD unit.

8 LCD Unit

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the 3 screws.

2 Remove the 1 connector.

3 Remove the VF case R unit.

4 Remove the 3 screws.

5 Remove the VF case L.

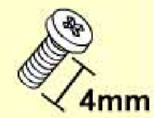
6 Remove the 6 screws.

7 Remove the 1 connector.

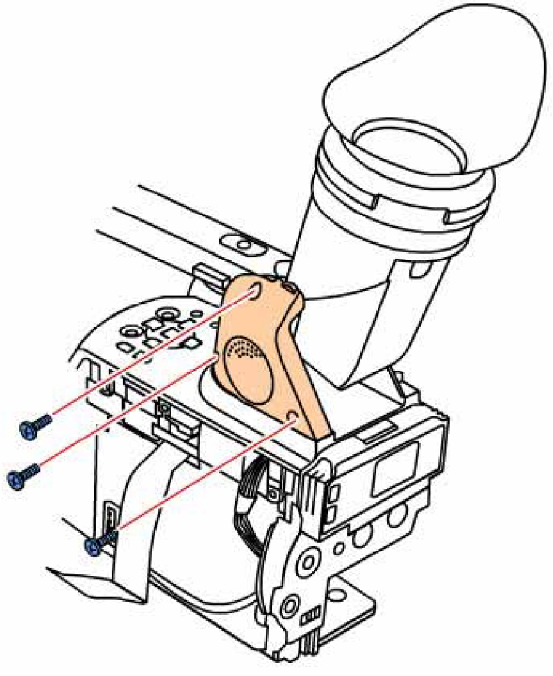
8 Remove the handle unit.

Auto Play ON OFF

9 Handle Unit

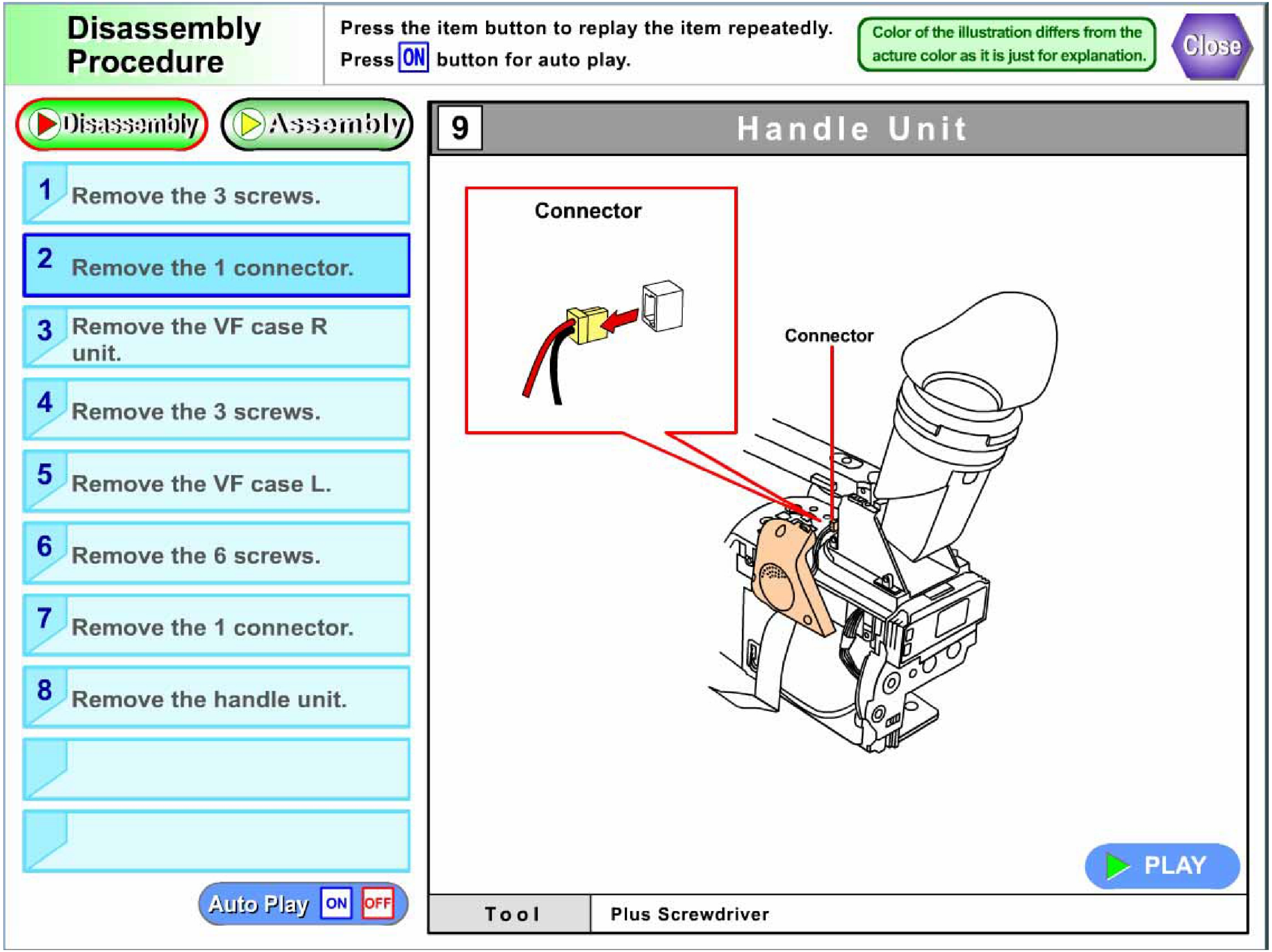


BLACK



PLAY

Tool	Plus Screwdriver



Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

9 Handle Unit

1 Remove the 3 screws.
2 Remove the 1 connector.
3 Remove the VF case R unit.
4 Remove the 3 screws.
5 Remove the VF case L.
6 Remove the 6 screws.
7 Remove the 1 connector.
8 Remove the handle unit.

Tool	Plus Screwdriver

Close
Disassembly
Assembly
Connector
Connector
PLAY
Auto Play
ON
OFF

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the 3 screws.

2 Remove the 1 connector.

3 Remove the VF case R unit.

4 Remove the 3 screws.

5 Remove the VF case L.

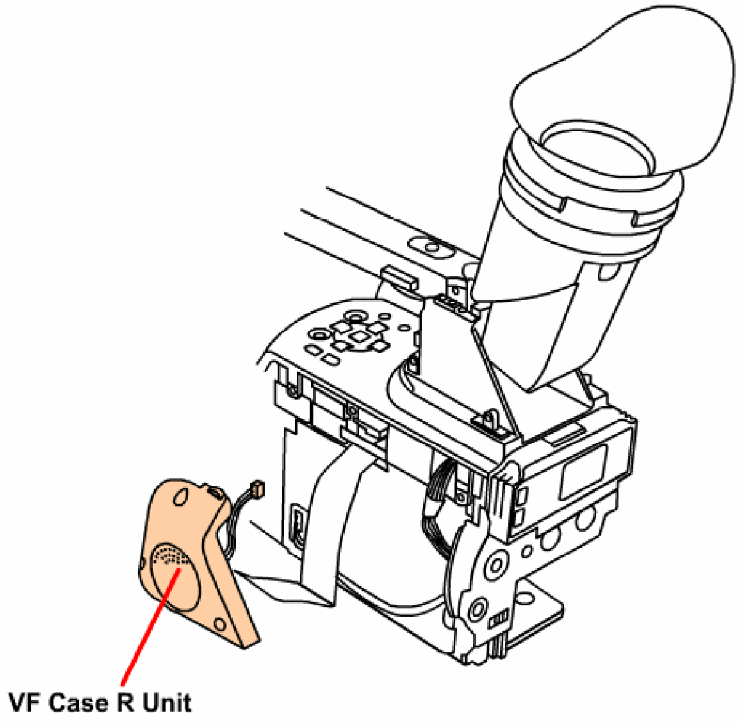
6 Remove the 6 screws.

7 Remove the 1 connector.

8 Remove the handle unit.

Auto Play ON OFF

9 Handle Unit



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press **ON** button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly   Assembly

1 Remove the 3 screws.

2 Remove the 1 connector.

3 Remove the VF case R unit.

4 Remove the 3 screws.

5 Remove the VF case L.

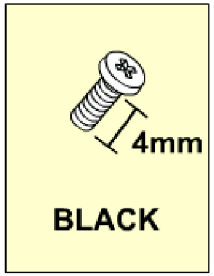
6 Remove the 6 screws.

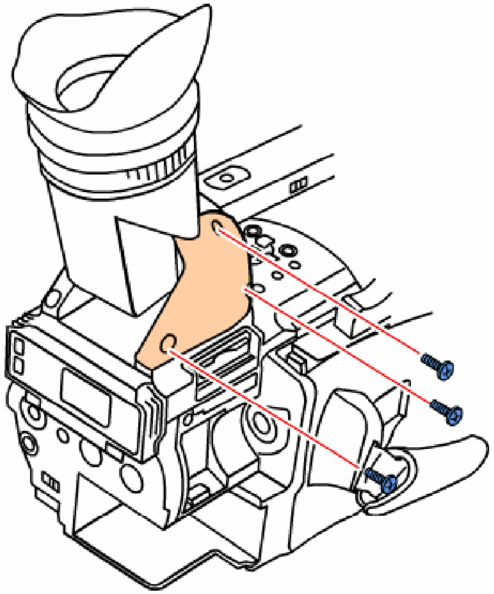
7 Remove the 1 connector.

8 Remove the handle unit.

Auto Play ON OFF

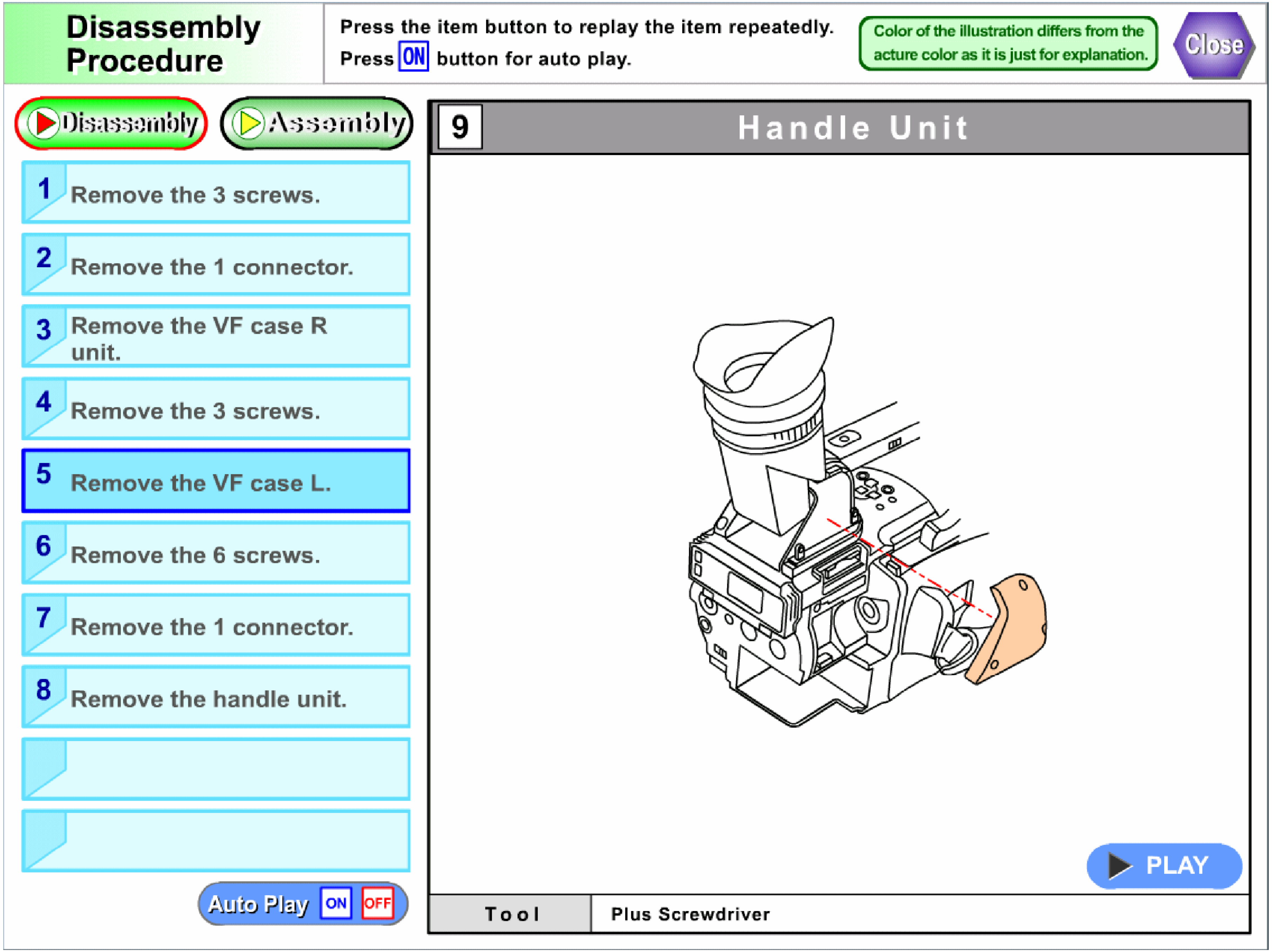
9 Handle Unit





PLAY

Tool	**Plus Screwdriver**



Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

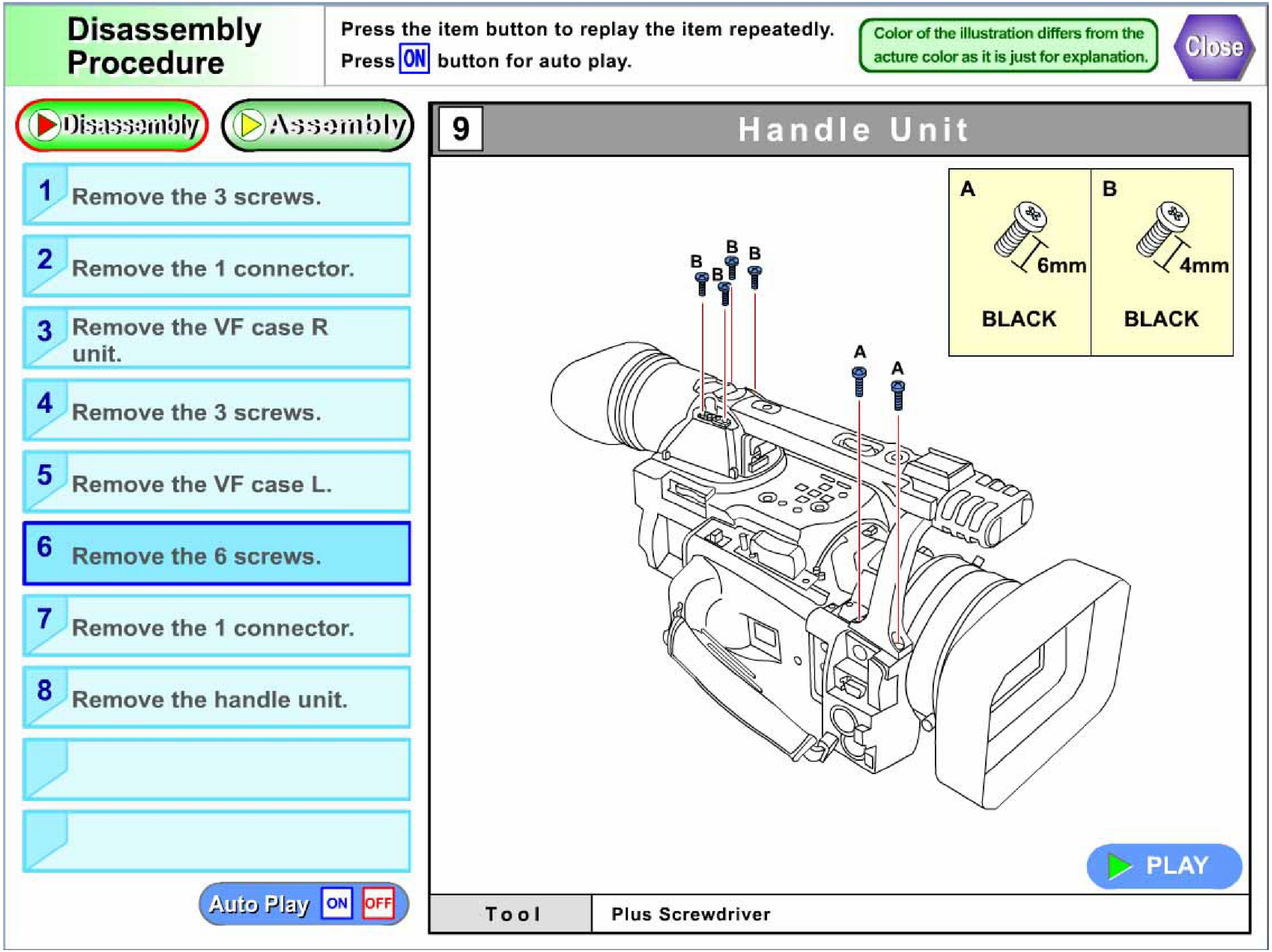
Close
Disassembly
Assembly

1 Remove the 3 screws.
2 Remove the 1 connector.
3 Remove the VF case R unit.
4 Remove the 3 screws.
5 Remove the VF case L.
6 Remove the 6 screws.
7 Remove the 1 connector.
8 Remove the handle unit.

Auto Play
ON
OFF

9 Handle Unit

Tool	Plus Screwdriver


Disassembly
Assembly
Close
Auto Play ON OFF
PLAY
B
B
B
B
A
A
A
6mm
BLACK
B
4mm
BLACK

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press **ON** button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

1 Remove the 3 screws.

2 Remove the 1 connector.

3 Remove the VF case R unit.

4 Remove the 3 screws.

5 Remove the VF case L.

6 Remove the 6 screws.

7 Remove the 1 connector.

8 Remove the handle unit.

9 Handle Unit

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the 3 screws.

2 Remove the 1 connector.

3 Remove the VF case R unit.

4 Remove the 3 screws.

5 Remove the VF case L.

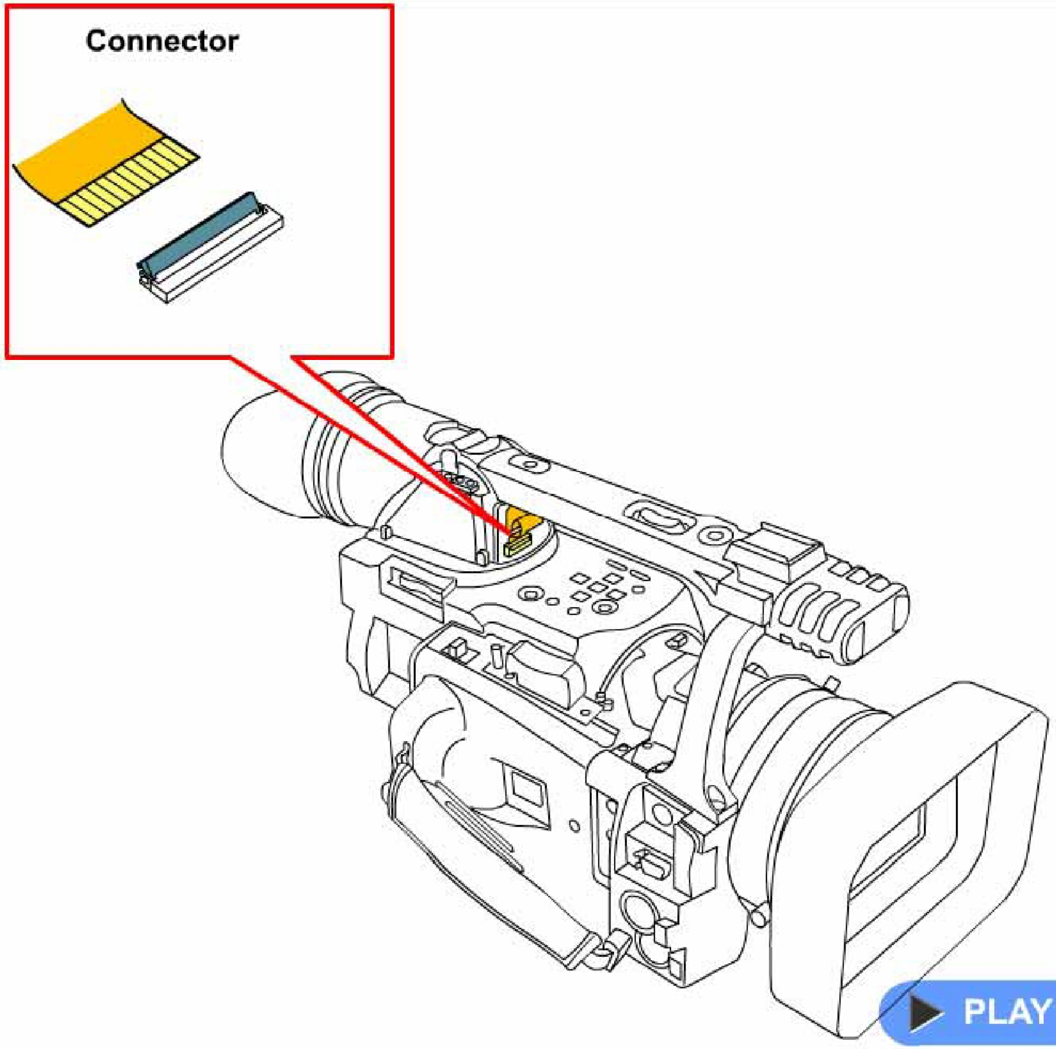
6 Remove the 6 screws.

7 Remove the 1 connector.

8 Remove the handle unit.

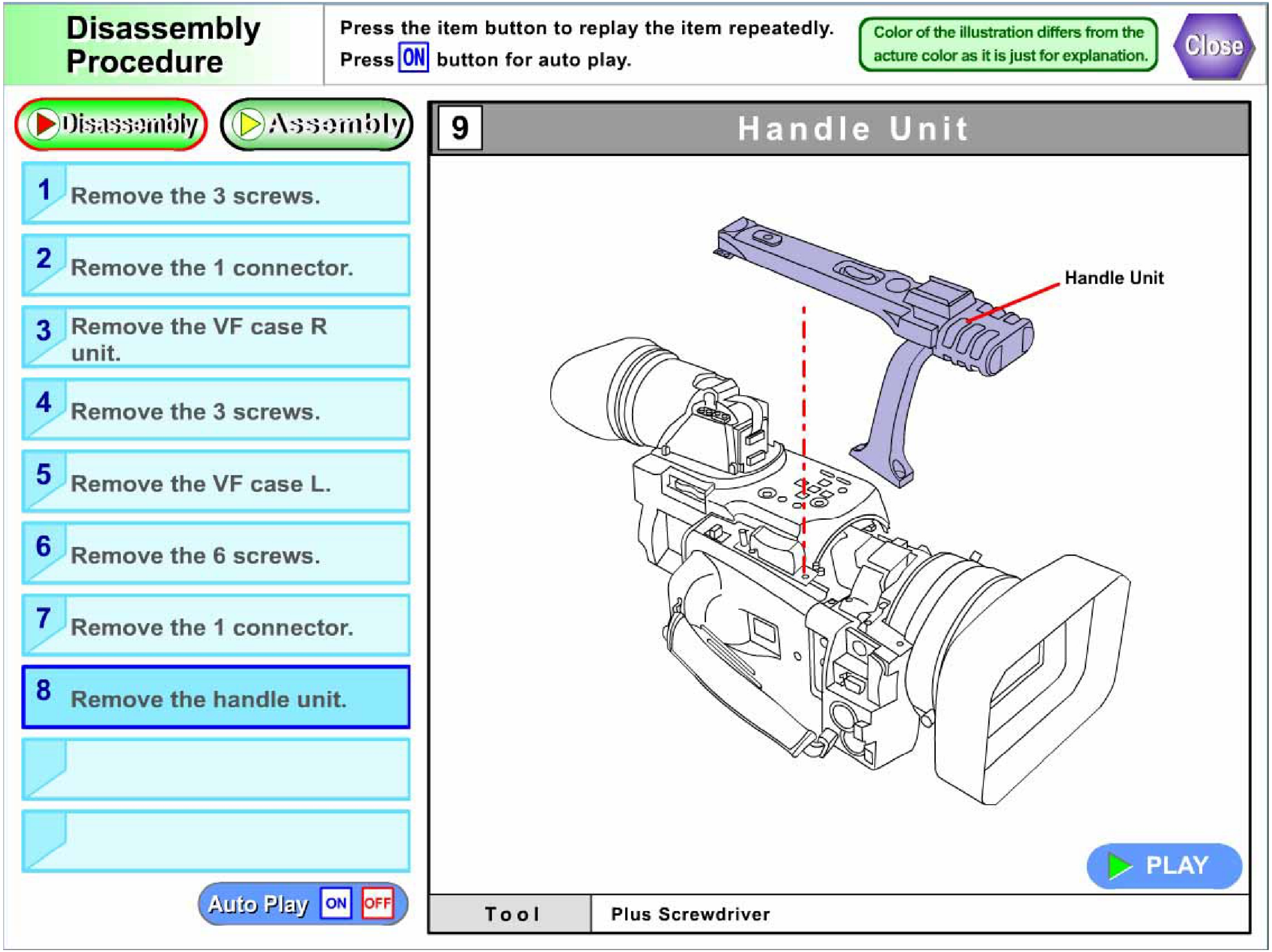
Auto Play ON OFF

9 Handle Unit



PLAY

Tool	Plus Screwdriver



Disassembly
Assembly
Close
Handle Unit
PLAY
Auto Play
ON
OFF

Disassembly Procedure

Press the item button to replay the item repeatedly.

Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

9 Handle Unit

1 Remove the 3 screws.

2 Remove the 1 connector.

3 Remove the VF case R unit.

4 Remove the 3 screws.

5 Remove the VF case L.

6 Remove the 6 screws.

7 Remove the 1 connector.

8 Remove the handle unit.

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the 4 screws and remove side cover LU.

2 Remove the 1 screw.

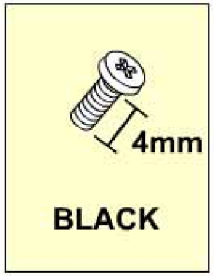
3 Remove the 1 connector.

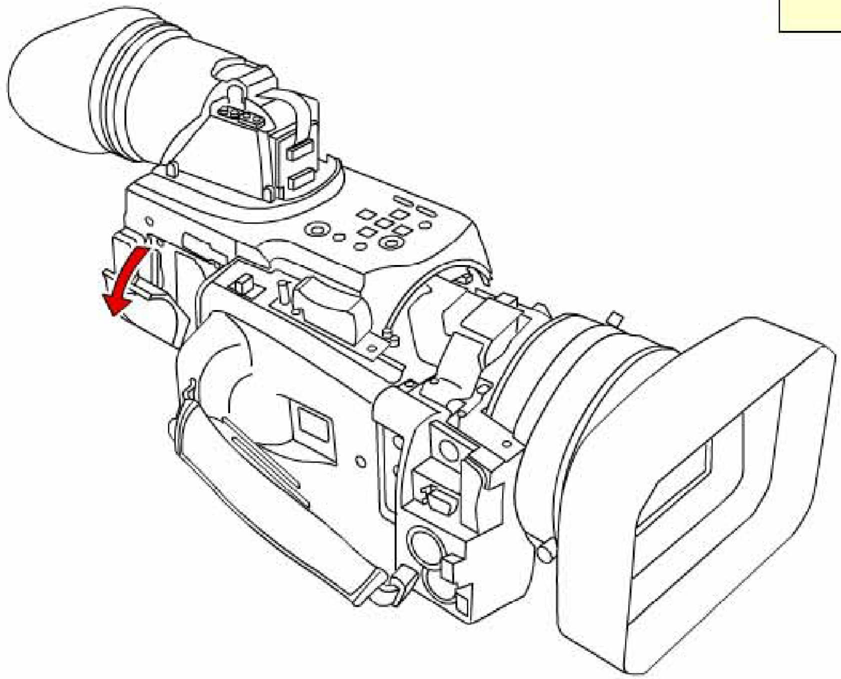
4 Remove the 3 screws.

5 Remove the top pannel & EVF unit.

Auto Play ON OFF

10 Top Pannel & EVF Unit





PLAY

Tool	**Plus Screwdriver**

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly

Assembly

1 Remove the 4 screws and remove side cover LU.

2 Remove the 1 screw.

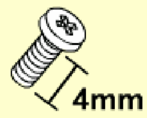
3 Remove the 1 connector.

4 Remove the 3 screws.

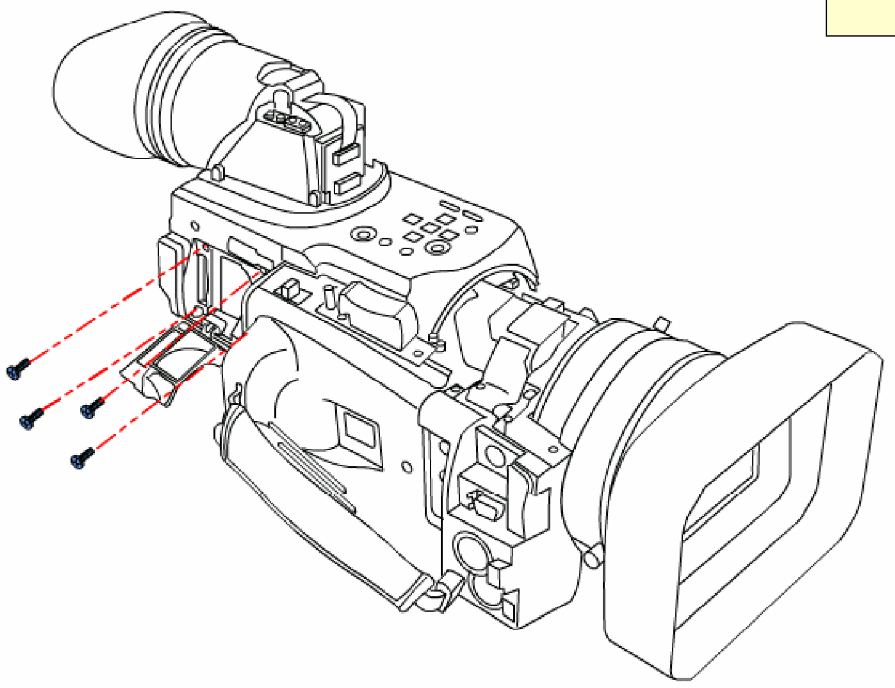
5 Remove the top pannel & EVF unit.

Auto Play ON OFF

10 Top Pannel & EVF Unit



BLACK



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the 4 screws and remove side cover LU.

2 Remove the 1 screw.

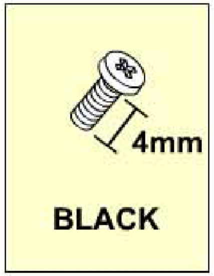
3 Remove the 1 connector.

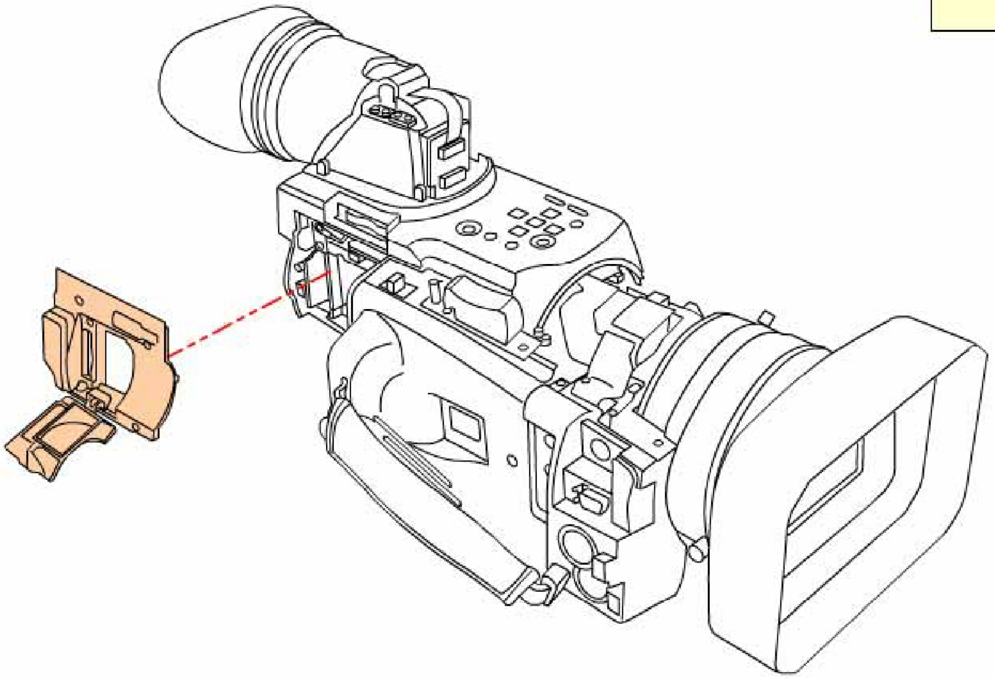
4 Remove the 3 screws.

5 Remove the top pannel & EVF unit.

Auto Play ON OFF

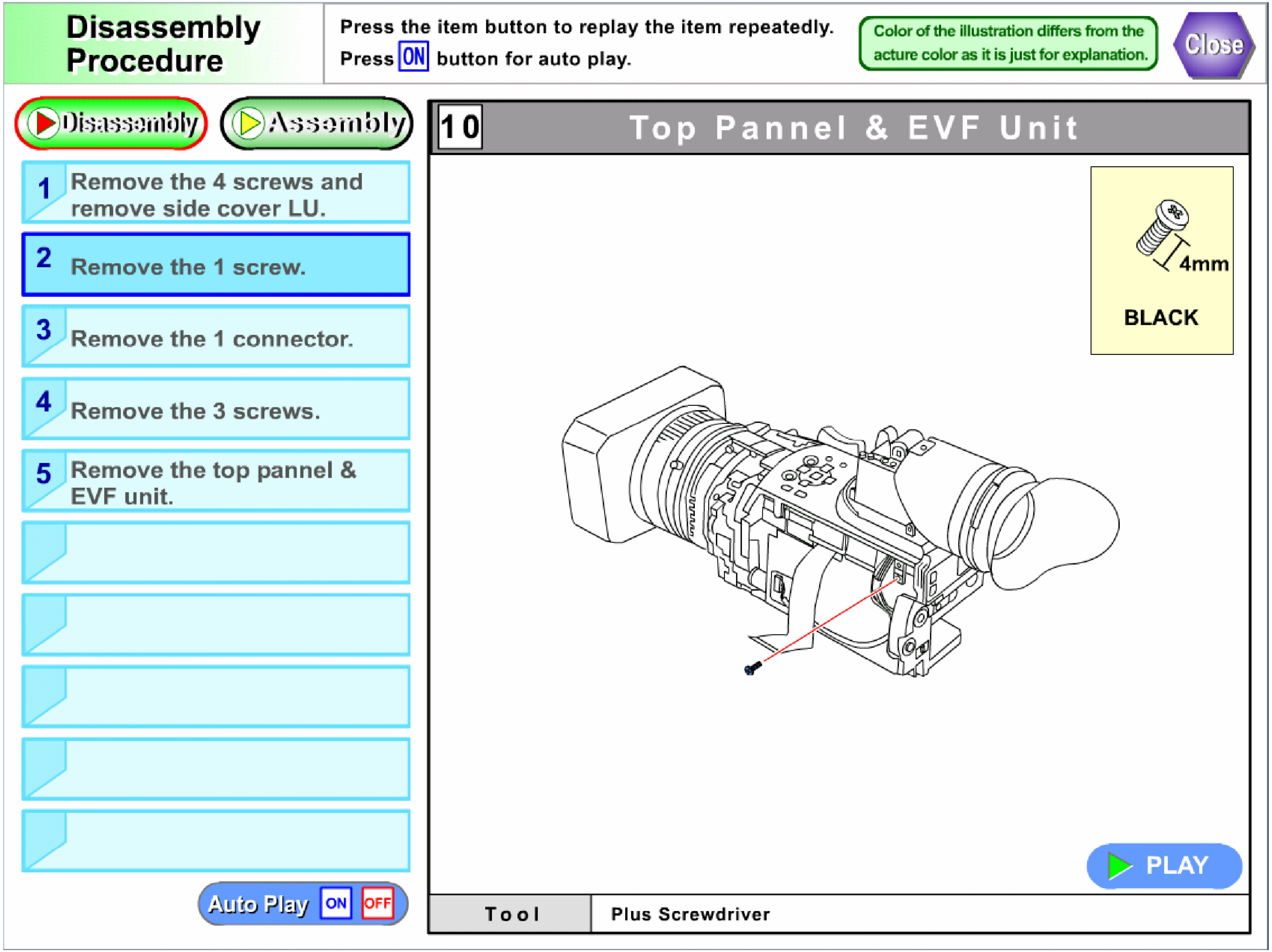
10 Top Pannel & EVF Unit





PLAY

Tool	Plus Screwdriver


Close
Disassembly
Assembly
PLAY
Auto Play
ON
OFF
4mm
BLACK

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

10 Top Pannel & EVF Unit

1 Remove the 4 screws and remove side cover LU.

2 Remove the 1 screw.

3 Remove the 1 connector.

4 Remove the 3 screws.

5 Remove the top pannel & EVF unit.

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

▶ Disassembly ▷ Assembly

1 Remove the 4 screws and remove side cover LU.

2 Remove the 1 screw.

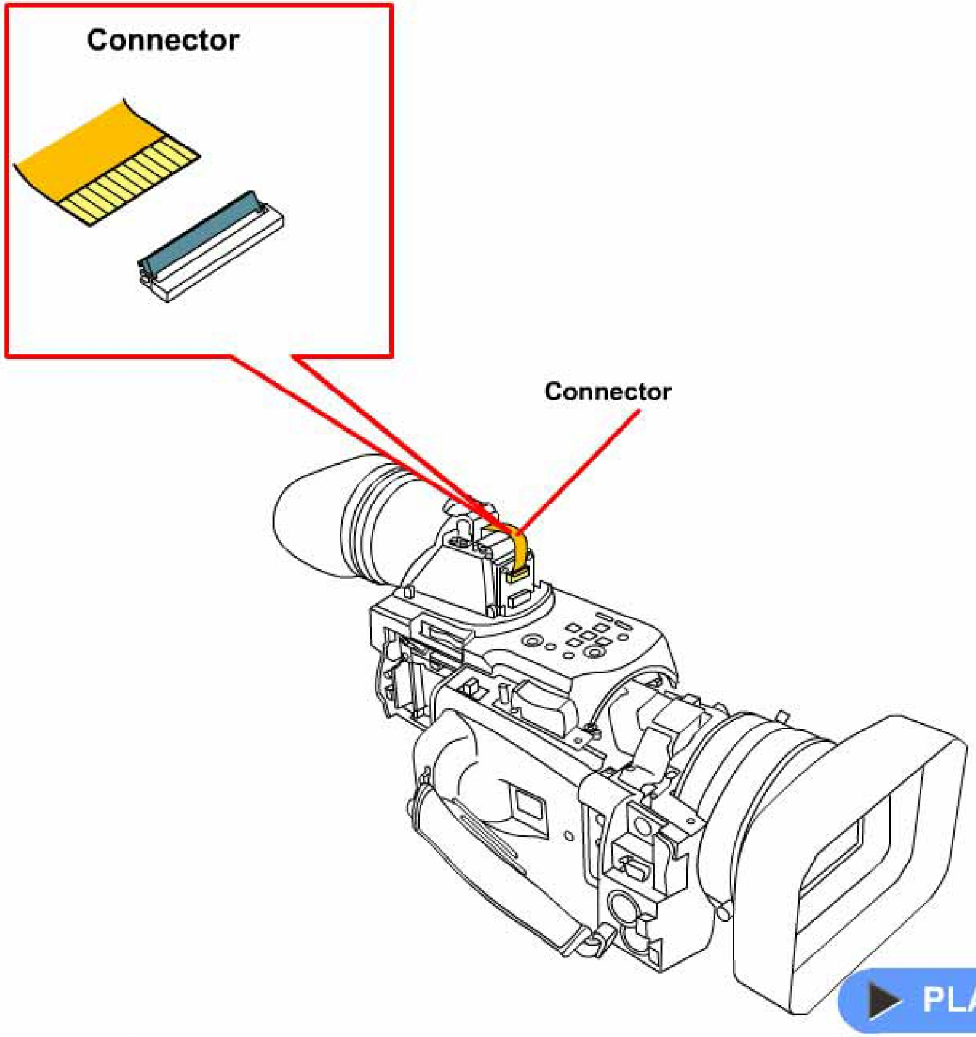
3 Remove the 1 connector.

4 Remove the 3 screws.

5 Remove the top pannel & EVF unit.

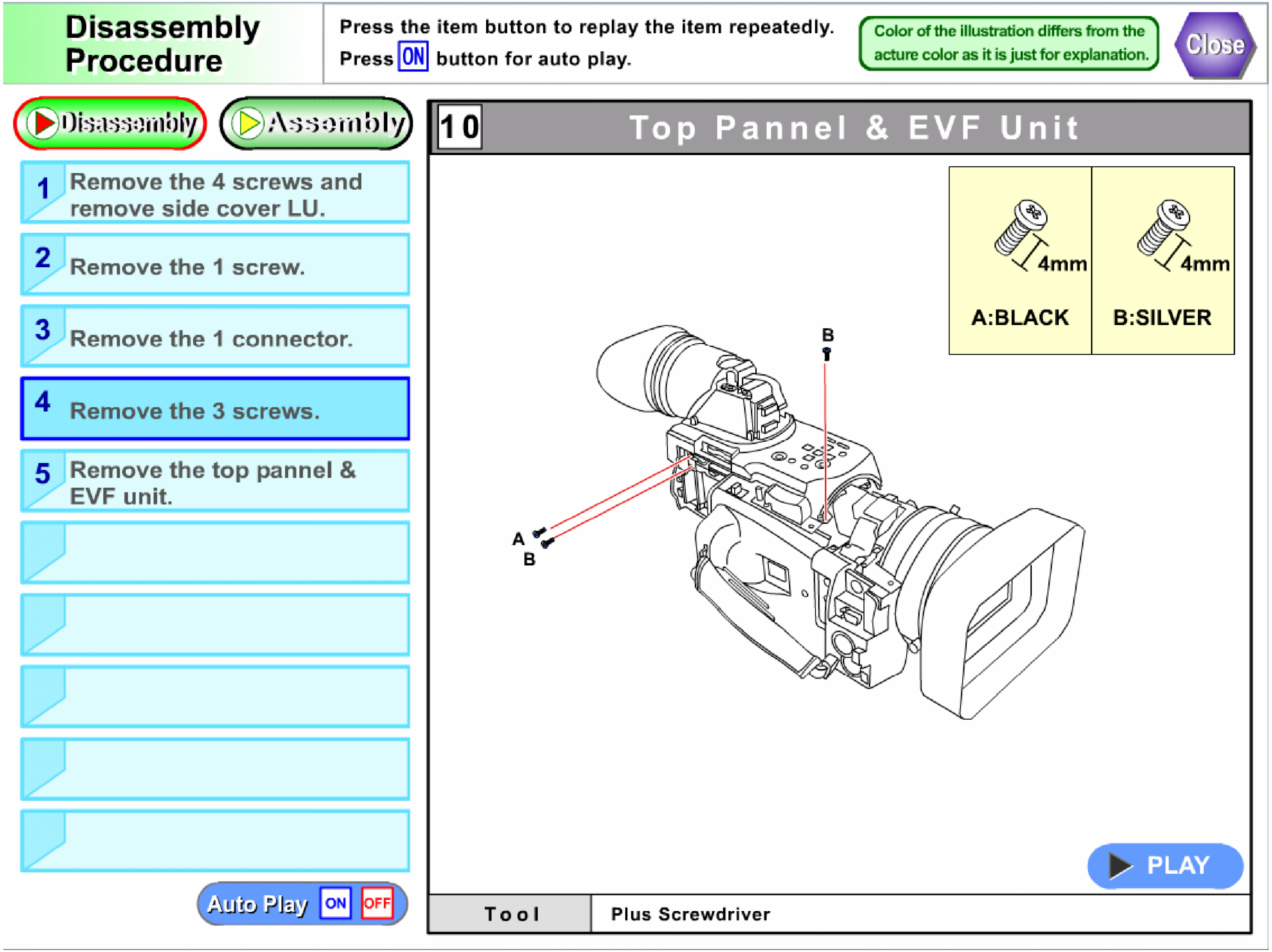
Auto Play ON OFF

10 Top Pannel & EVF Unit



▶ PLAY

Tool	Plus Screwdriver


Disassembly
Assembly
Close
PLAY
Auto Play
ON
OFF
4mm
4mm
A:BLACK
B:SILVER
B
A
B

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

10 Top Pannel & EVF Unit

1 Remove the 4 screws and remove side cover LU.

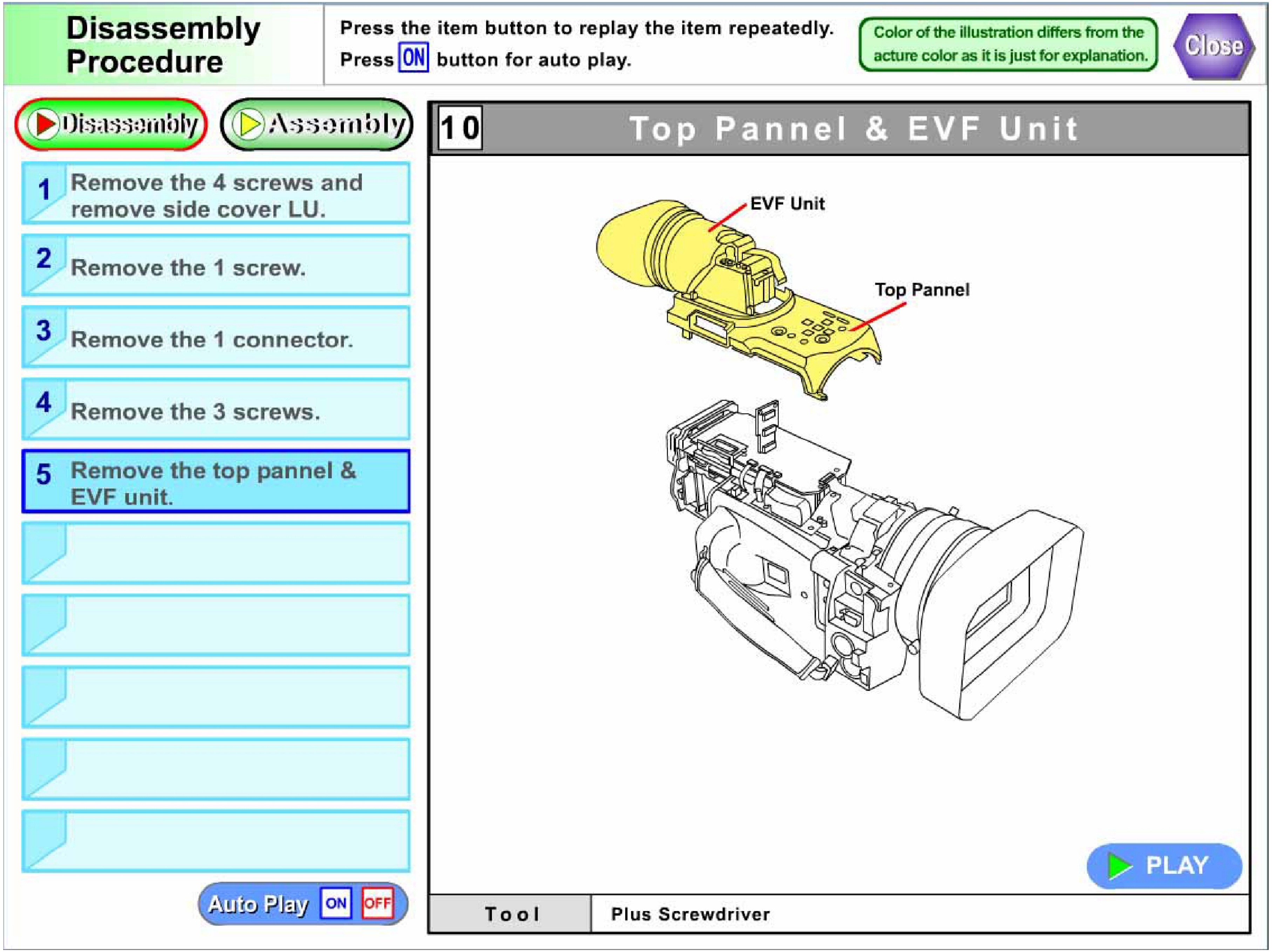
2 Remove the 1 screw.

3 Remove the 1 connector.

4 Remove the 3 screws.

5 Remove the top pannel & EVF unit.

Tool	Plus Screwdriver



Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close
Disassembly
Assembly

10 Top Pannel & EVF Unit

1. Remove the 4 screws and remove side cover LU.
2. Remove the 1 screw.
3. Remove the 1 connector.
4. Remove the 3 screws.
5. Remove the top pannel & EVF unit.

EVF Unit
Top Pannel
PLAY
Auto Play
ON
OFF

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press **ON** button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Open the card door.

2 Remove the 2 screws.

3 Close the card door.

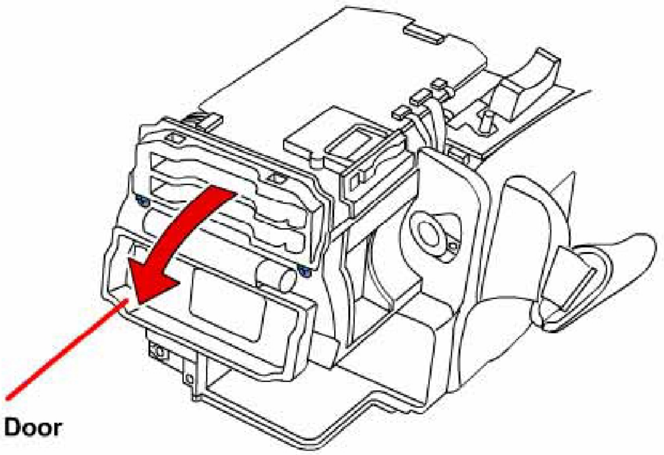
4 Remove the 2 screws.

5 Remove the 3 connectors.

6 Remove the back pannel.

Auto Play ON OFF

11 Back Panel



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press **ON** button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Open the card door.

2 Remove the 2 screws.

3 Close the card door.

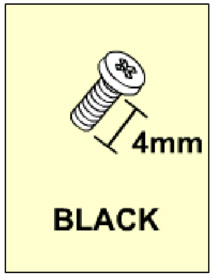
4 Remove the 2 screws.

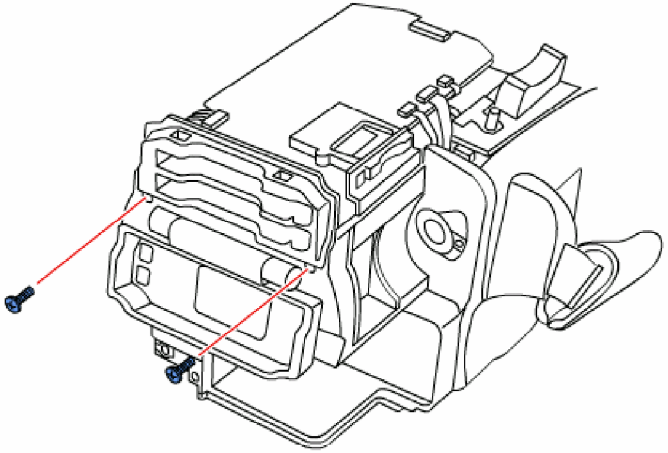
5 Remove the 3 connectors.

6 Remove the back pannel.

Auto Play ON OFF

11 Back Panel





PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Open the card door.

2 Remove the 2 screws.

3 Close the card door.

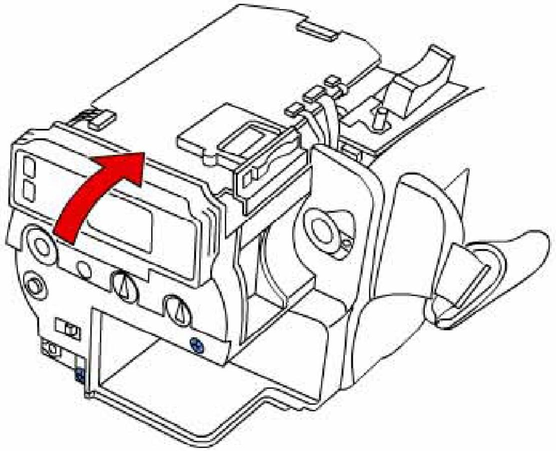
4 Remove the 2 screws.

5 Remove the 3 connectors.

6 Remove the back pannel.

Auto Play ON OFF

11 Back Panel



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly   Assembly

1 Open the card door.

2 Remove the 2 screws.

3 Close the card door.

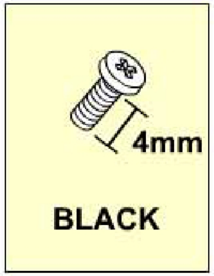
4 Remove the 2 screws.

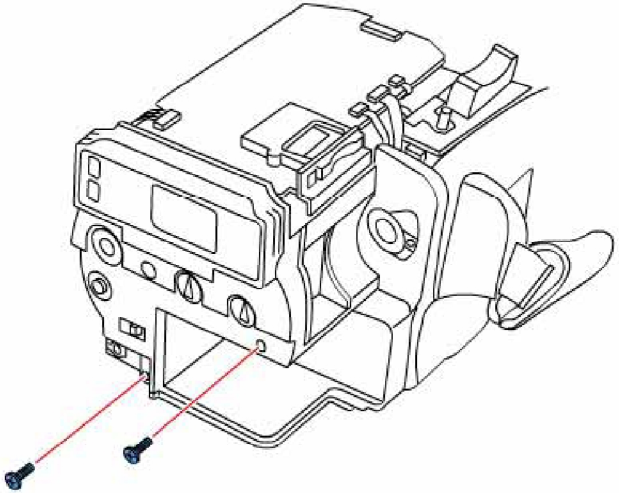
5 Remove the 3 connectors.

6 Remove the back pannel.

Auto Play ON OFF

11 Back Panel





PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Open the card door.

2 Remove the 2 screws.

3 Close the card door.

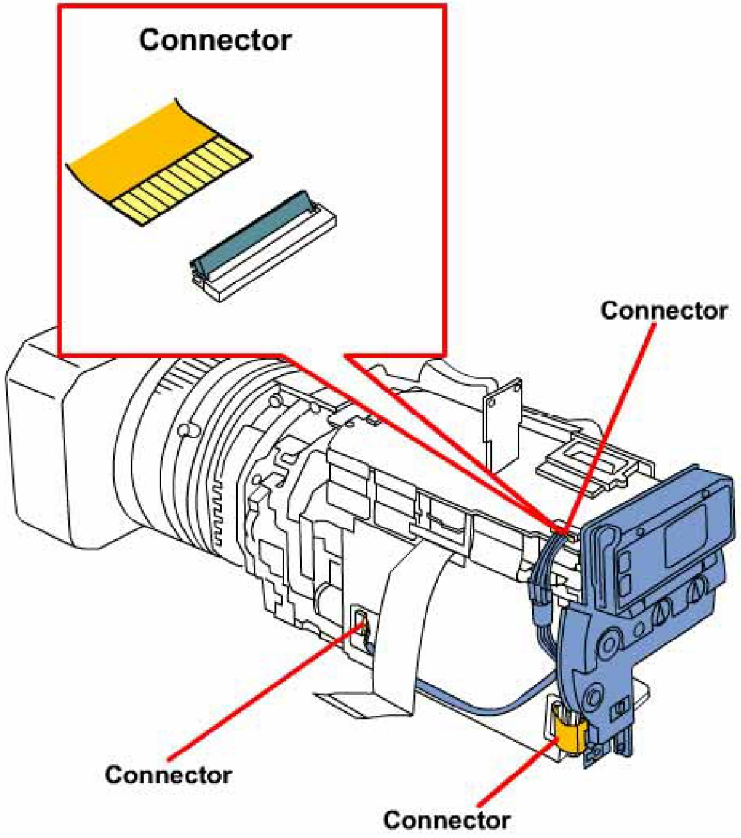
4 Remove the 2 screws.

5 Remove the 3 connectors.

6 Remove the back pannel.

Auto Play ON OFF

11 Back Panel



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

▶ Disassembly ▷ Assembly

1 Open the card door.

2 Remove the 2 screws.

3 Close the card door.

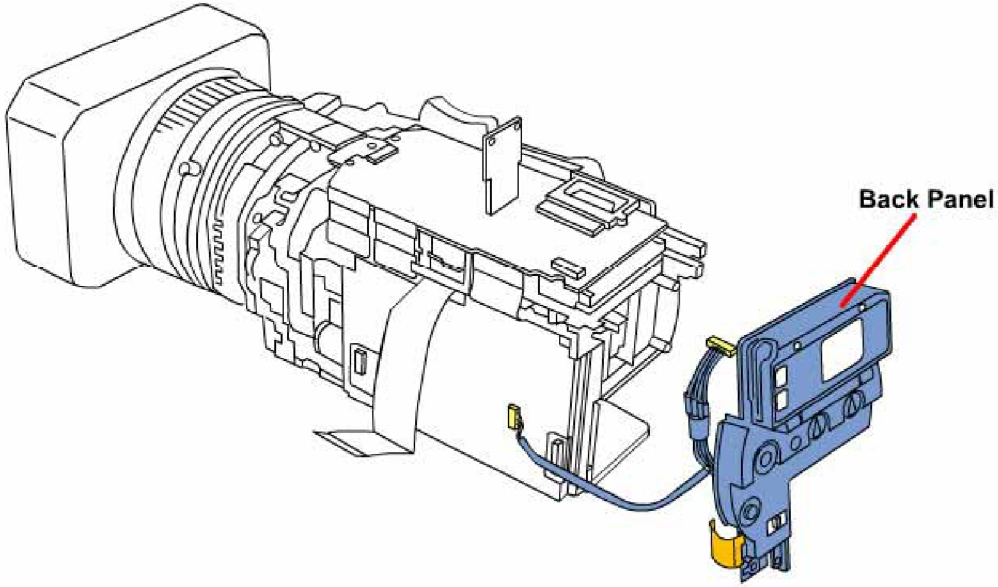
4 Remove the 2 screws.

5 Remove the 3 connectors.

6 Remove the back pannel.

Auto Play ON OFF

11 Back Panel



▶ PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly

Assembly

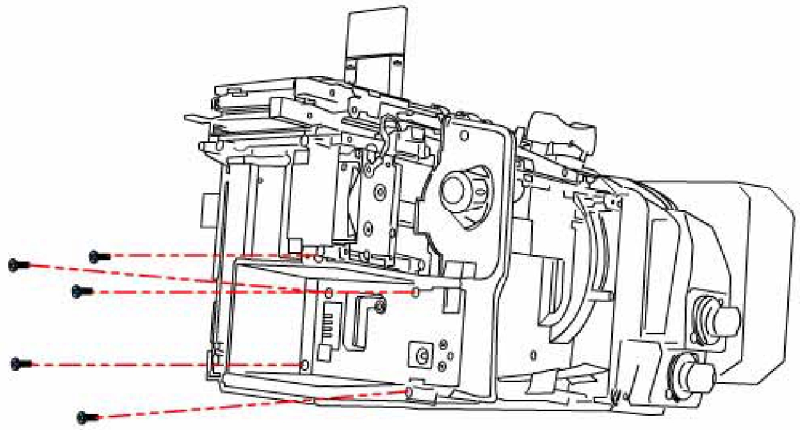
1 Remove the 5 screws.

2 Remove the 2 connectors.

3 Remove the battery P.C.B.

Auto Play ON OFF

12 Battery Case Unit



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

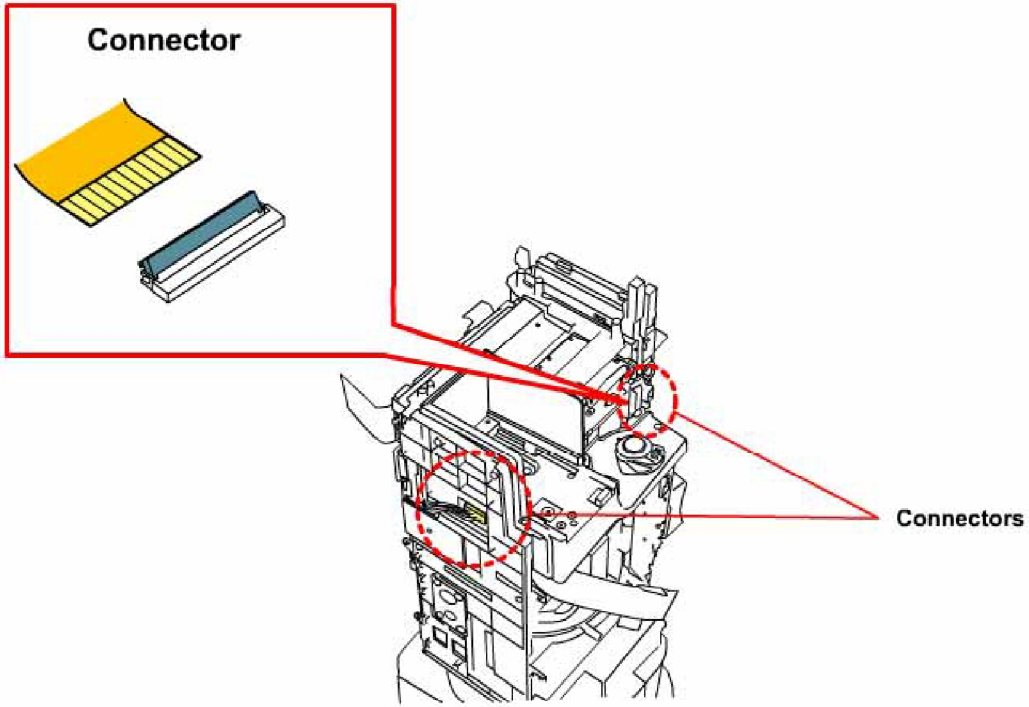
1 Remove the 5 screws.

2 Remove the 2 connectors.

3 Remove the battery P.C.B.

Auto Play ON OFF

12 Battery Case Unit



PLAY

Tool	

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

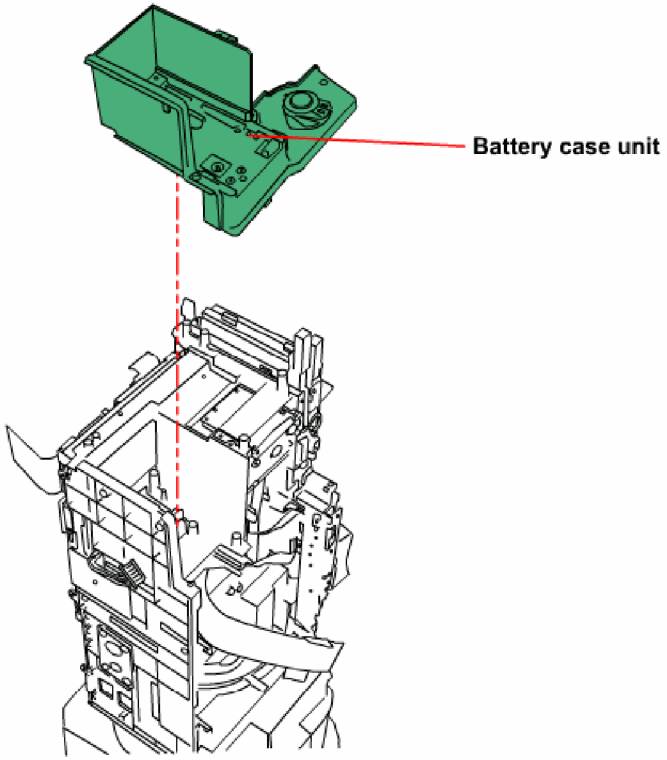
1 Remove the 5 screws.

2 Remove the 2 connectors.

3 Remove the battery P.C.B.

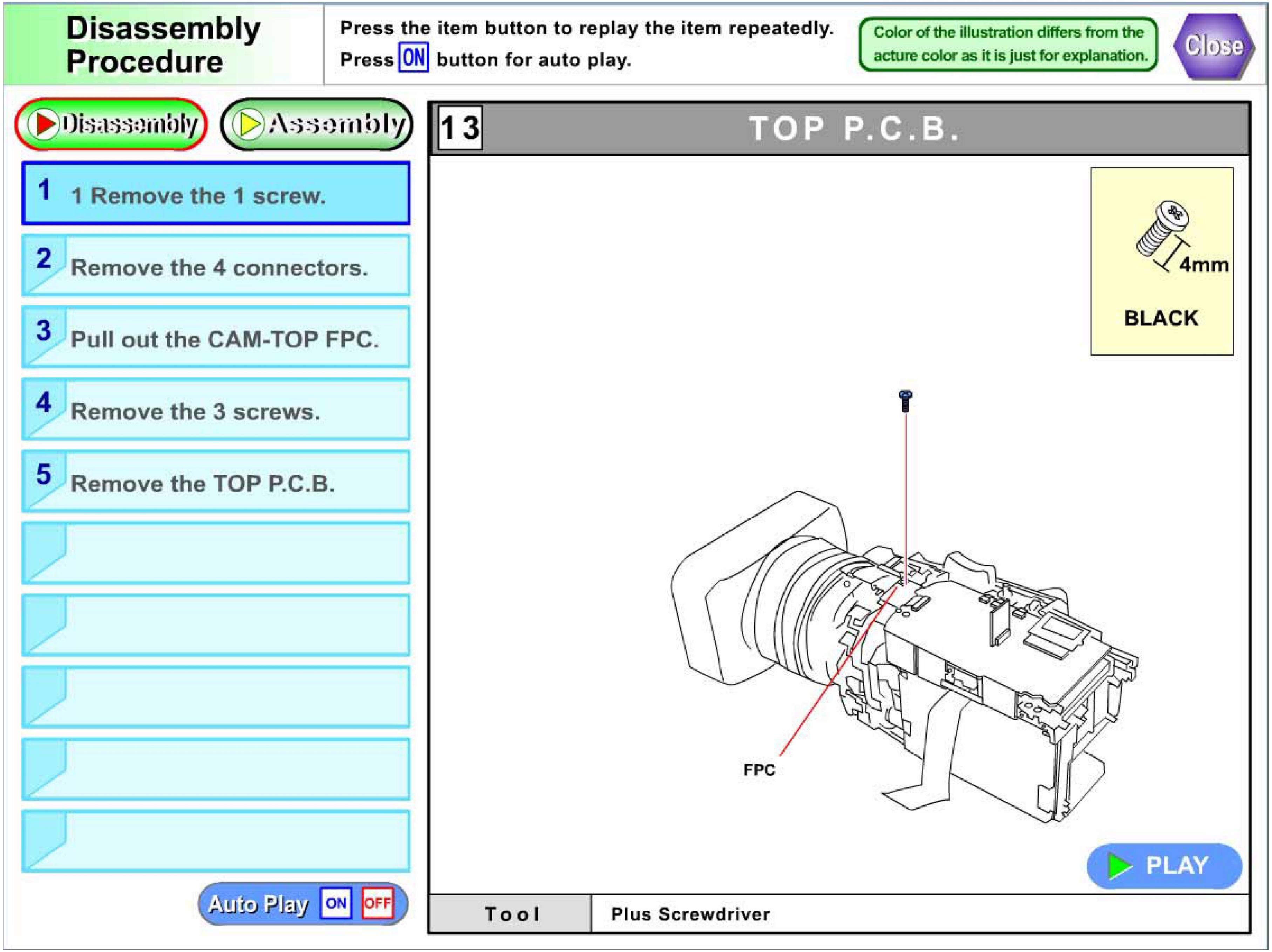
Auto Play ON OFF

12 Battery Case Unit



PLAY

Tool



Close
Disassembly
Assembly
Auto Play ON OFF
PLAY
4mm
BLACK
FPC

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

13 TOP P.C.B.

1. 1 Remove the 1 screw.
2. Remove the 4 connectors.
3. Pull out the CAM-TOP FPC.
4. Remove the 3 screws.
5. Remove the TOP P.C.B.

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press **ON** button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 1 Remove the 1 screw.

2 Remove the 4 connectors.

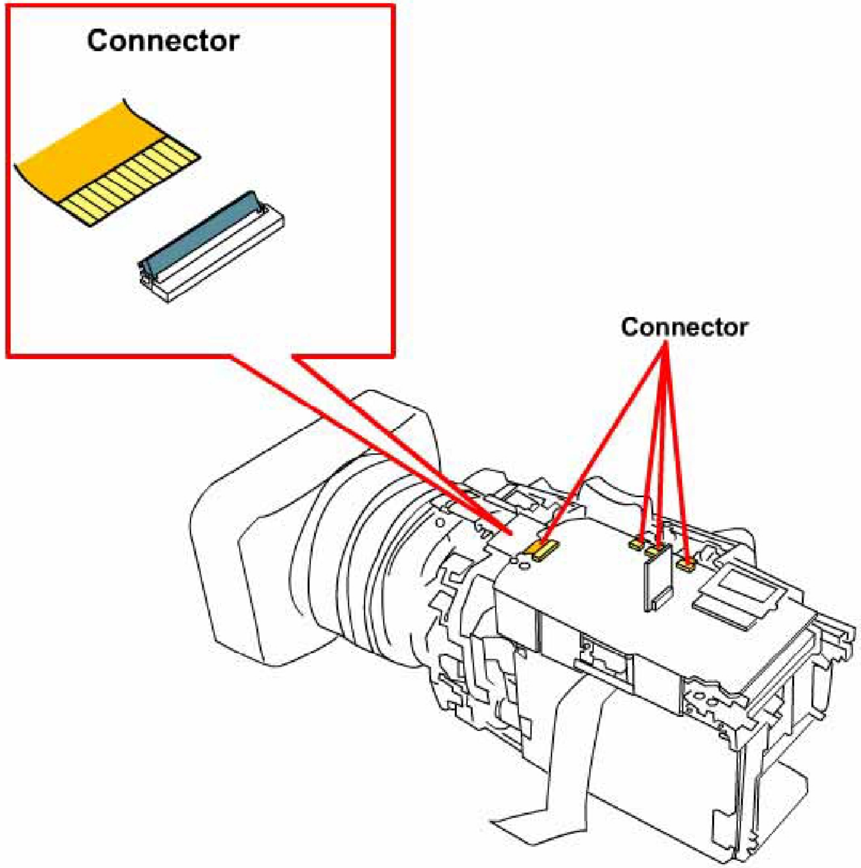
3 Pull out the CAM-TOP FPC.

4 Remove the 3 screws.

5 Remove the TOP P.C.B.

Auto Play ON OFF

13 TOP P.C.B.



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

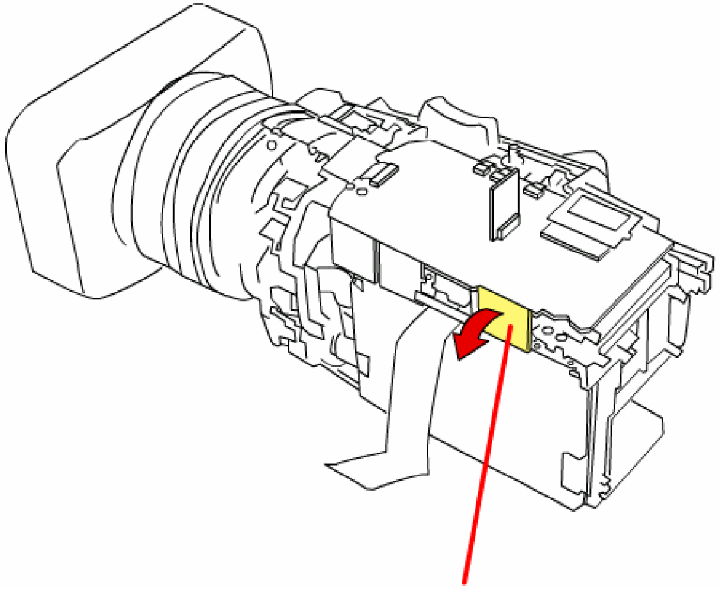
Close

Disassembly | Assembly

1. 1 Remove the 1 screw.
2. Remove the 4 connectors.
3. **Pull out the CAM-TOP FPC.**
4. Remove the 3 screws.
5. Remove the TOP P.C.B.

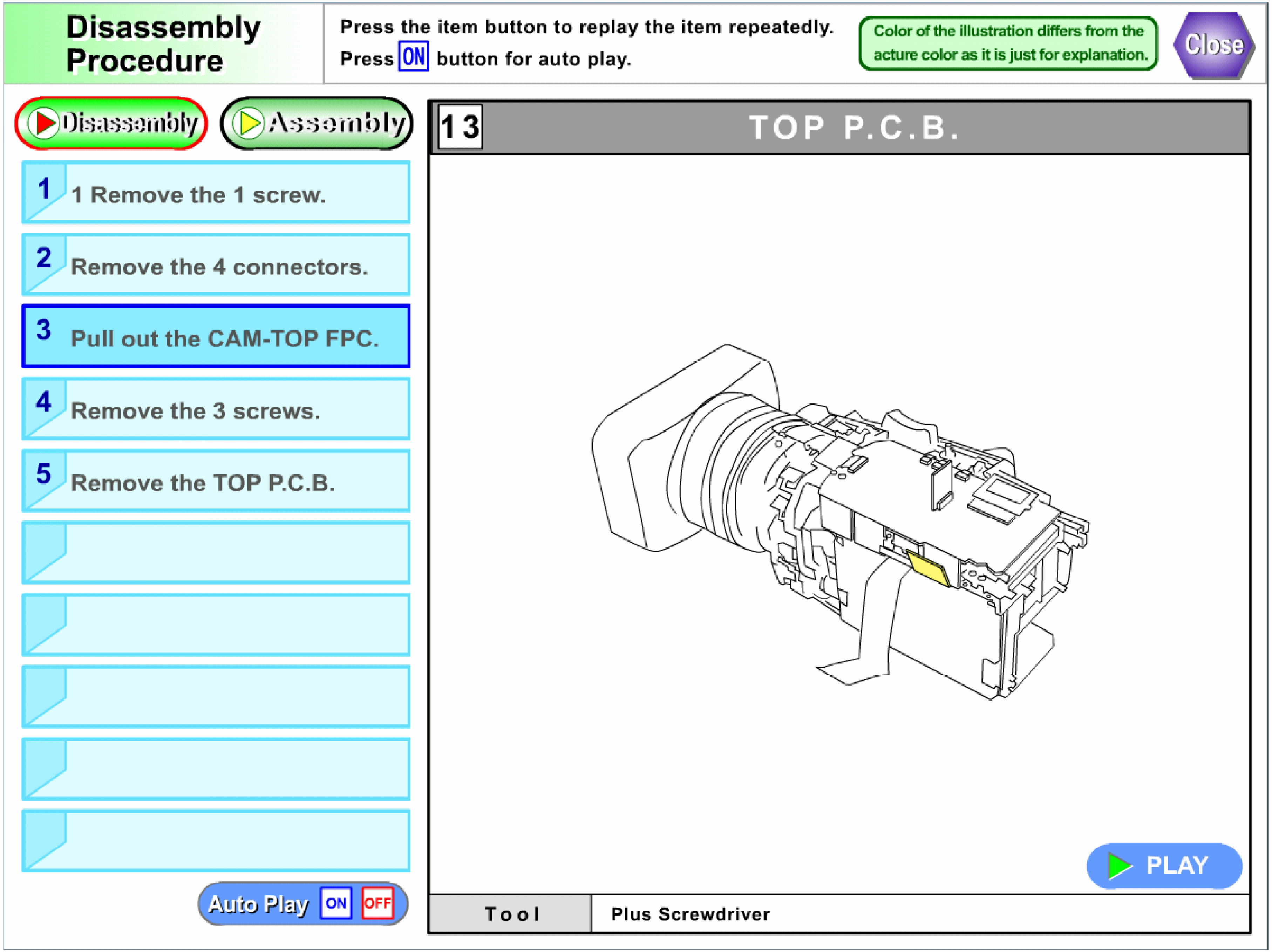
Auto Play ON OFF

13 TOP P.C.B.



PLAY

Tool	Plus Screwdriver


Close
Disassembly
Assembly
Auto Play ON OFF
PLAY

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

13 TOP P.C.B.

1 1 Remove the 1 screw.

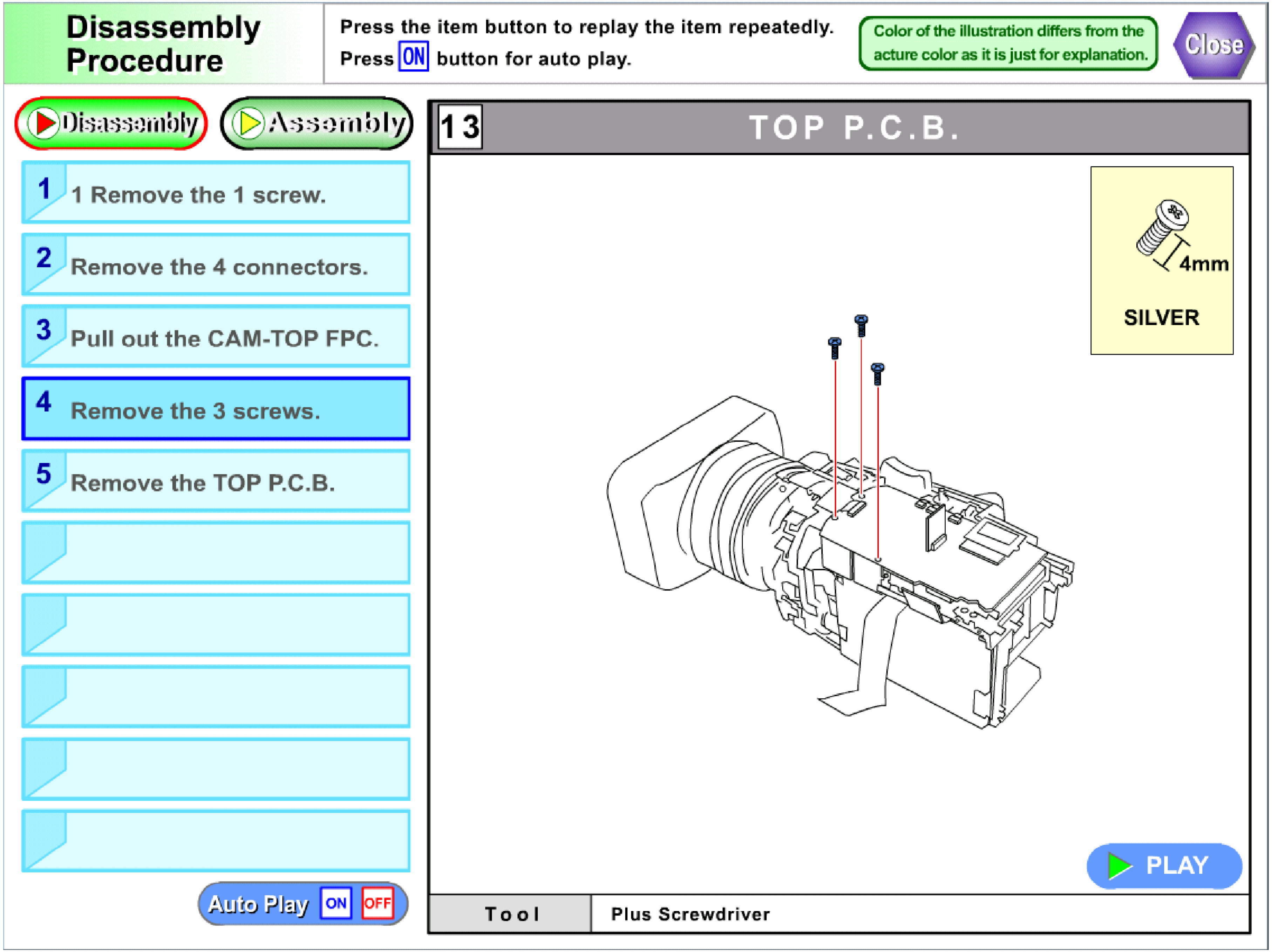
2 Remove the 4 connectors.

3 Pull out the CAM-TOP FPC.

4 Remove the 3 screws.

5 Remove the TOP P.C.B.

Tool	Plus Screwdriver



Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close
Disassembly
Assembly

1 1 Remove the 1 screw.

2 Remove the 4 connectors.

3 Pull out the CAM-TOP FPC.

4 Remove the 3 screws.

5 Remove the TOP P.C.B.

Auto Play
ON
OFF

13 TOP P.C.B.

4mm
SILVER
PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

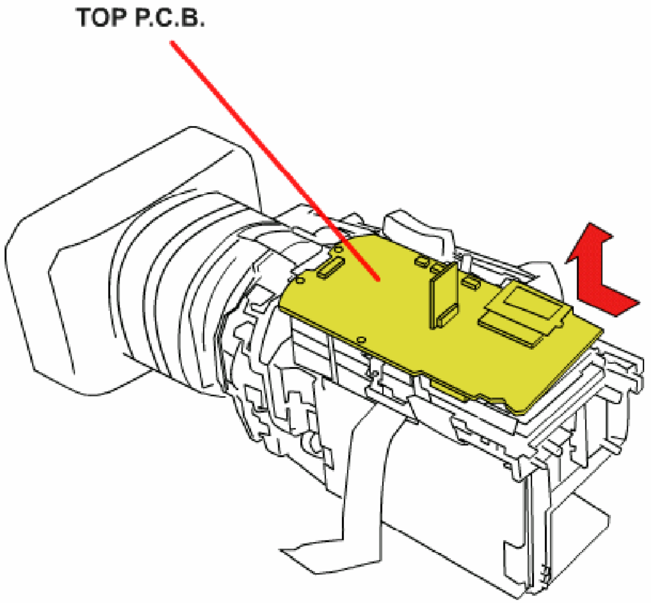
Close

Disassembly Assembly

1. 1 Remove the 1 screw.
2. Remove the 4 connectors.
3. Pull out the CAM-TOP FPC.
4. Remove the 3 screws.
5. Remove the TOP P.C.B.

Auto Play ON OFF

13 TOP P.C.B.



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 1 Remove the 1 screw.

2 Remove the 4 connectors.

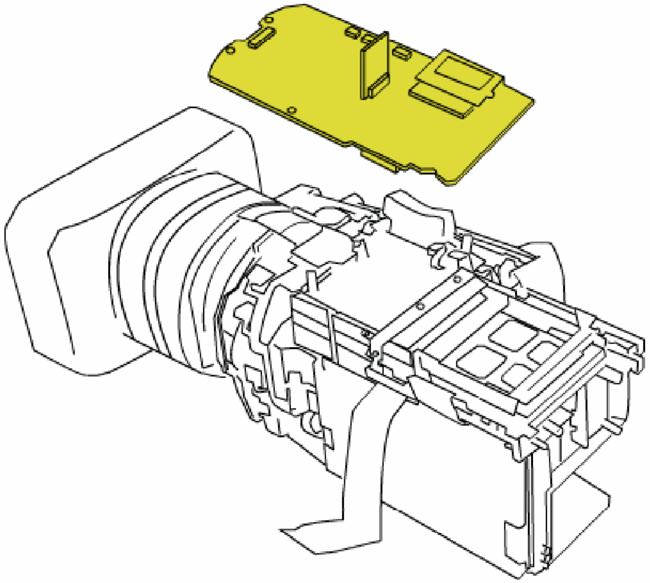
3 Pull out the CAM-TOP FPC.

4 Remove the 3 screws.

5 Remove the TOP P.C.B.

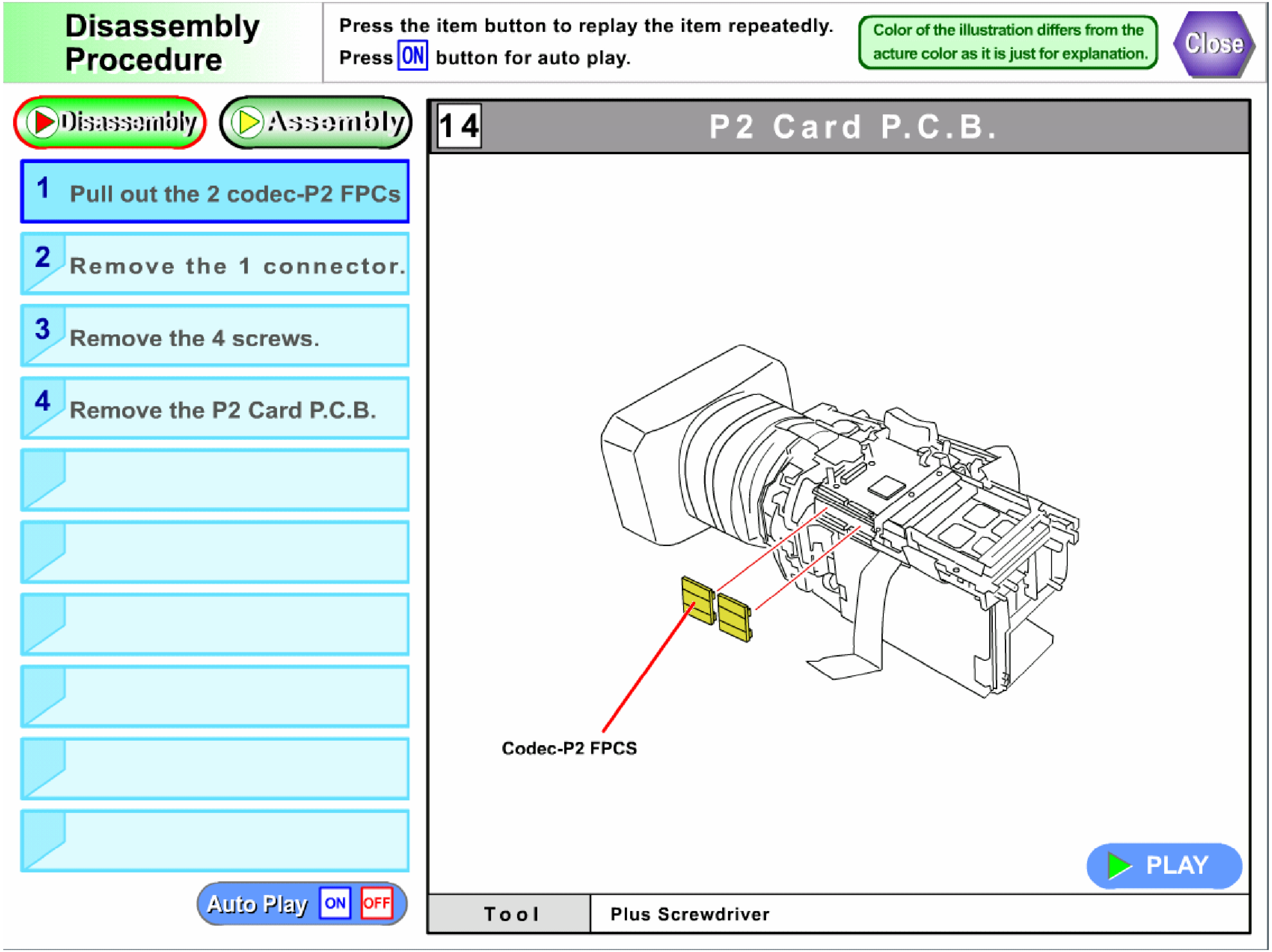
Auto Play ON OFF

13 TOP P.C.B.



PLAY

Tool	Plus Screwdriver



Disassembly Procedure

Press the item button to replay the item repeatedly.

Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

14 P2 Card P.C.B.

1 Pull out the 2 codec-P2 FPCs

2 Remove the 1 connector.

3 Remove the 4 screws.

4 Remove the P2 Card P.C.B.

Tool	**Plus Screwdriver**

Close
Disassembly
Assembly
Codec-P2 FPCS
PLAY
Auto Play
ON
OFF

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Pull out the 2 codec-P2 FPCs

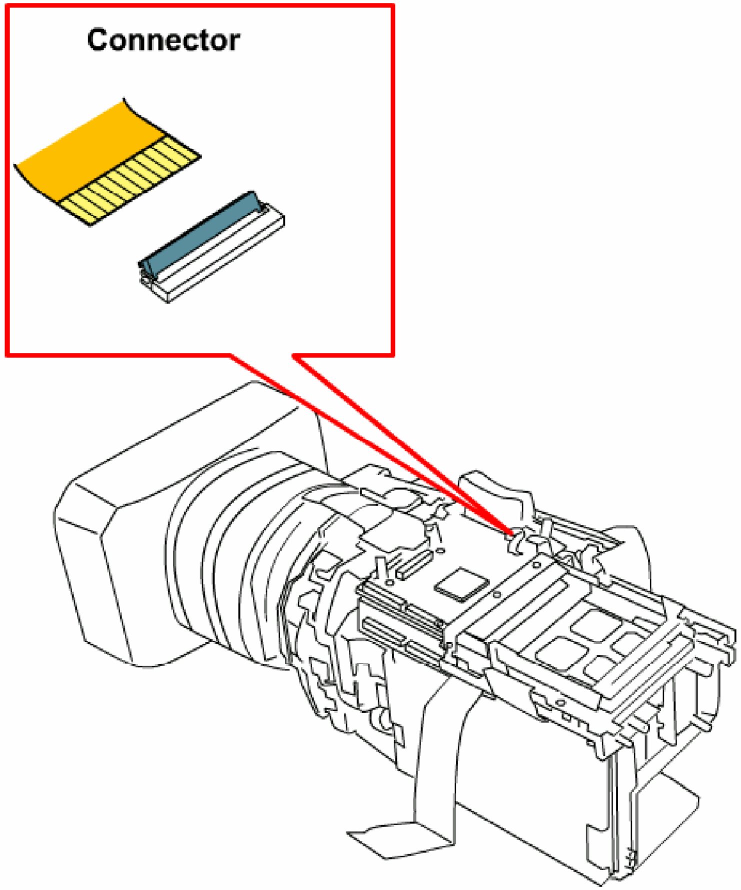
2 Remove the 1 connector.

3 Remove the 4 screws.

4 Remove the P2 Card P.C.B.

Auto Play ON OFF

14 P2 Card P.C.B.



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Pull out the 2 codec-P2 FPCs

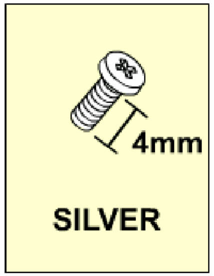
2 Remove the 1 connector.

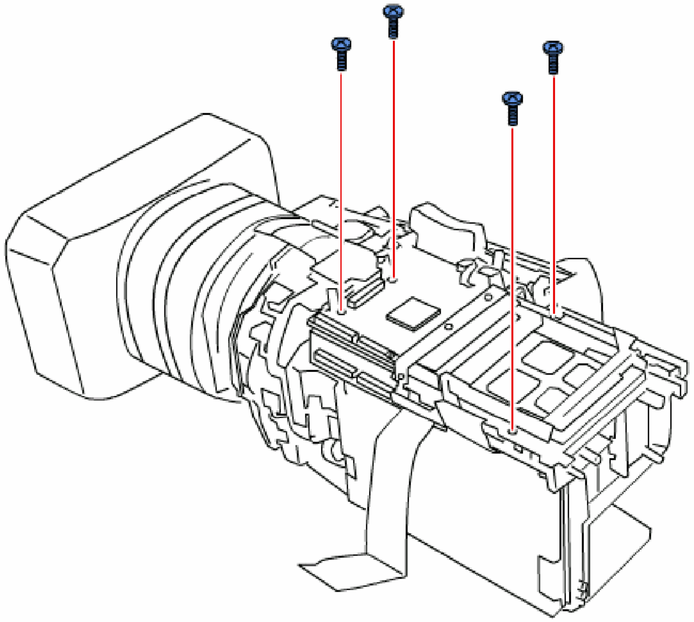
3 Remove the 4 screws.

4 Remove the P2 Card P.C.B.

Auto Play ON OFF

14 P2 Card P.C.B.





PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Pull out the 2 codec-P2 FPCs

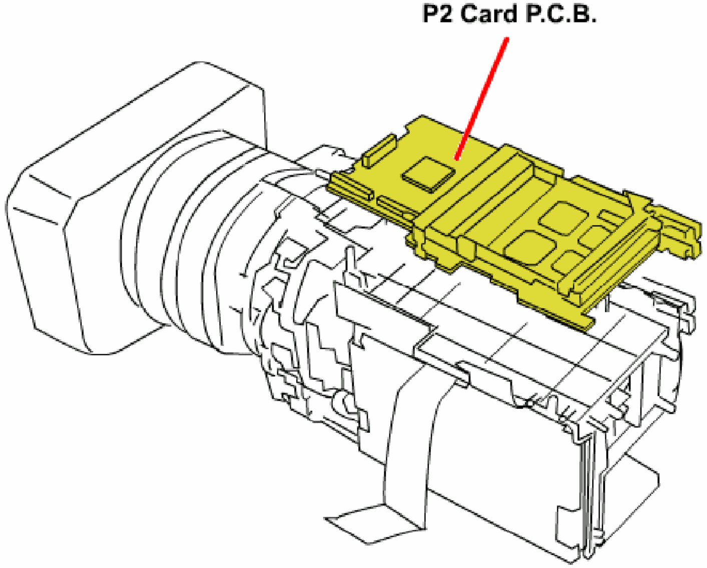
2 Remove the 1 connector.

3 Remove the 4 screws.

4 Remove the P2 Card P.C.B.

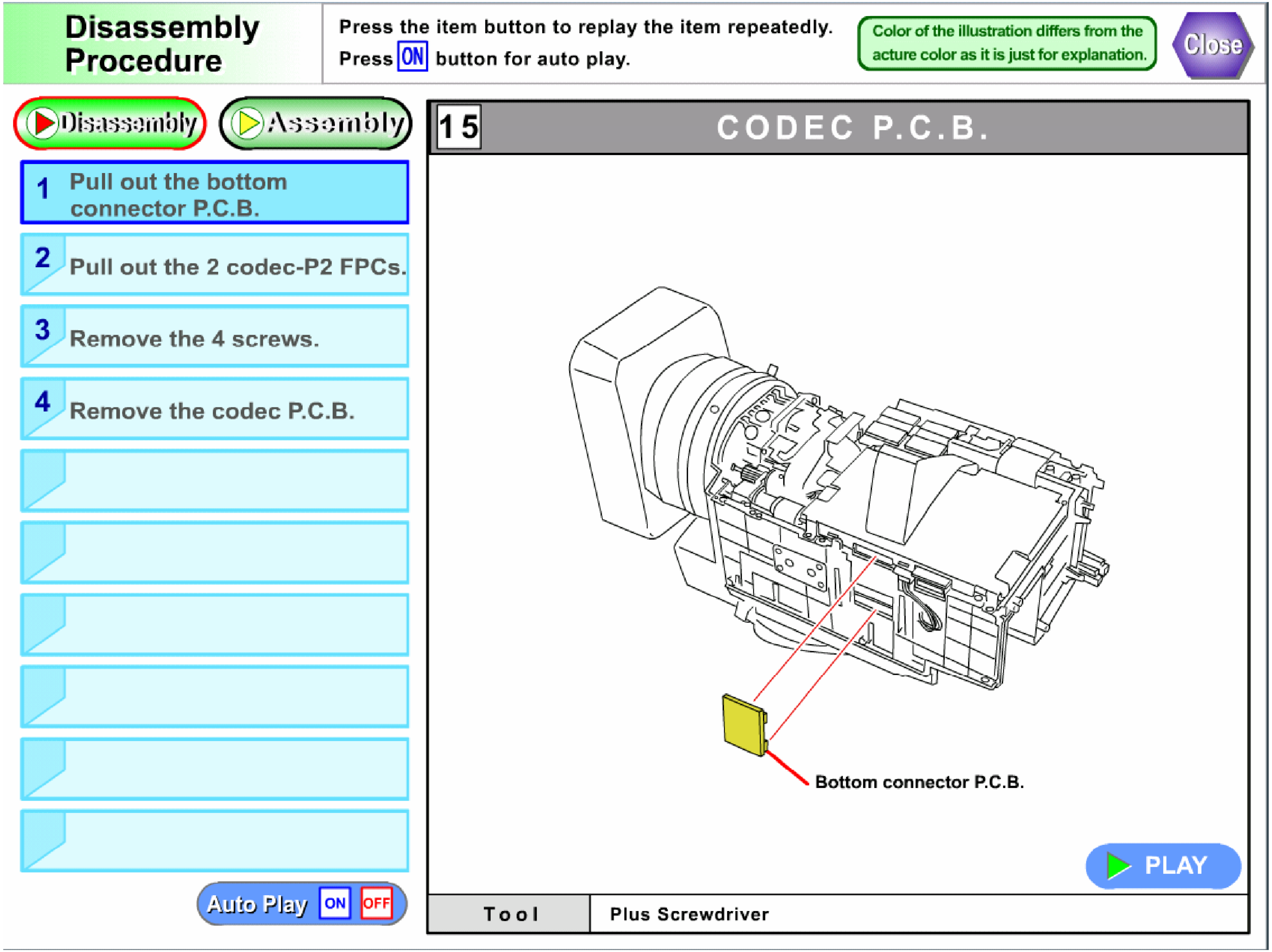
Auto Play ON OFF

14 P2 Card P.C.B.



PLAY

Tool	Plus Screwdriver


Disassembly
Procedure
Close
Disassembly
Assembly
Bottom connector P.C.B.
PLAY
Auto Play
ON
OFF

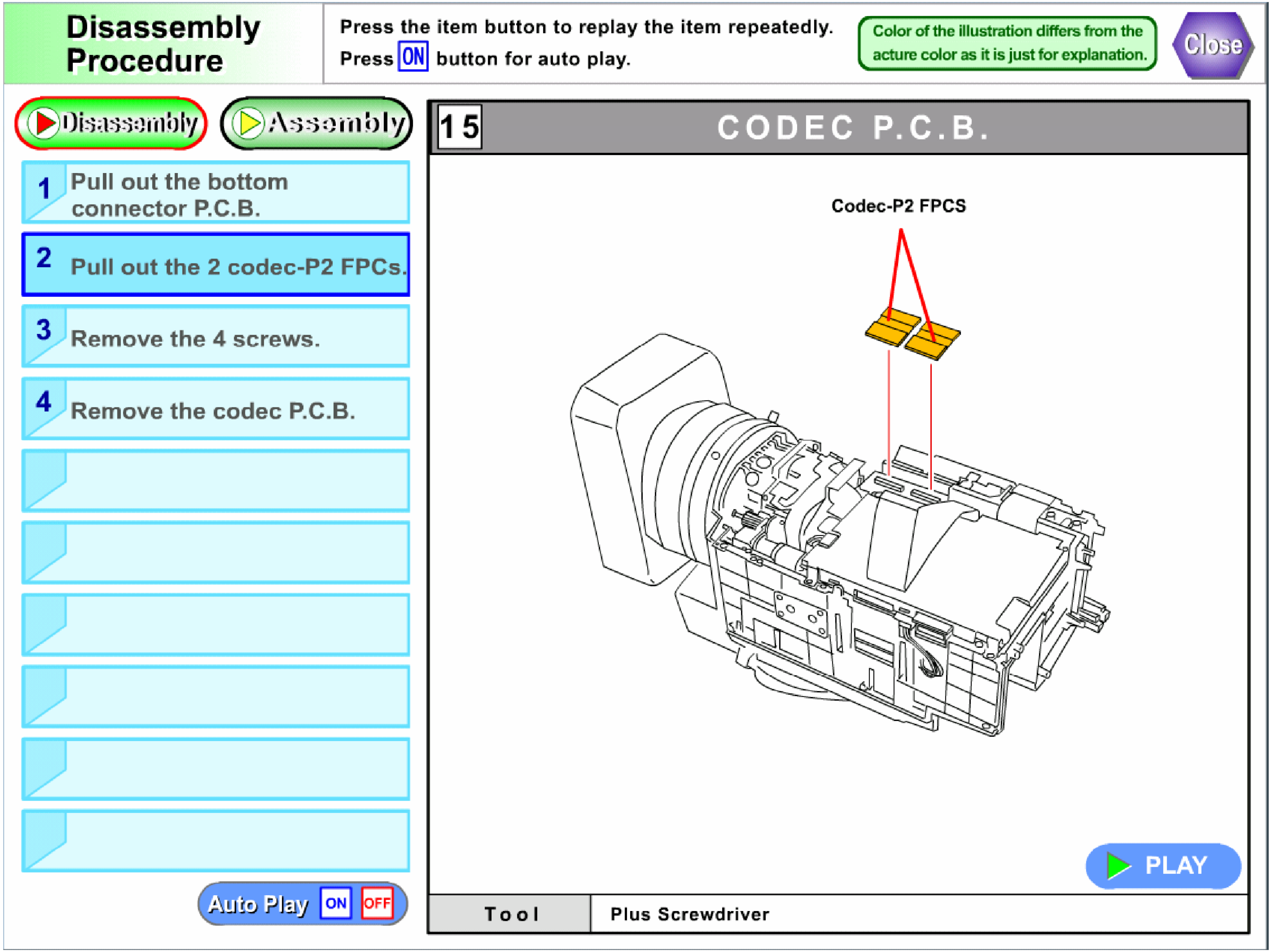
Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

15 CODEC P.C.B.

1. Pull out the bottom connector P.C.B.
2. Pull out the 2 codec-P2 FPCs.
3. Remove the 4 screws.
4. Remove the codec P.C.B.

Tool	Plus Screwdriver


Disassembly
Assembly
Close
PLAY
Auto Play
ON
OFF
Codec-P2 FPCS

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

15 CODEC P.C.B.

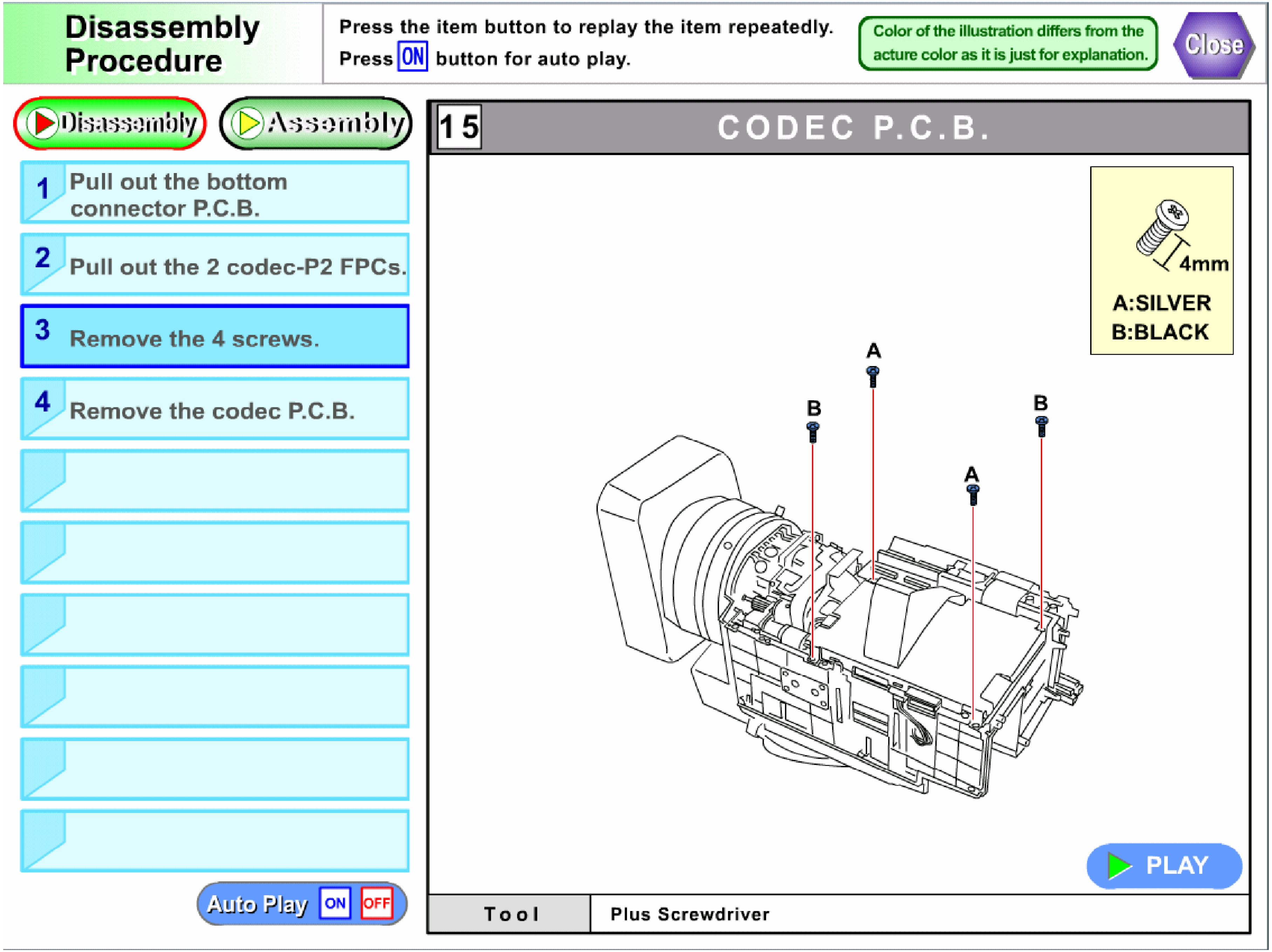
1 Pull out the bottom connector P.C.B.

2 Pull out the 2 codec-P2 FPCs.

3 Remove the 4 screws.

4 Remove the codec P.C.B.

Tool	Plus Screwdriver


Disassembly
Assembly
Close
A
B
A
B
4mm
PLAY
Auto Play
ON
OFF

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

15 CODEC P.C.B.

1 Pull out the bottom connector P.C.B.

2 Pull out the 2 codec-P2 FPCs.

3 Remove the 4 screws.

4 Remove the codec P.C.B.

A:SILVER
B:BLACK

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Pull out the bottom connector P.C.B.

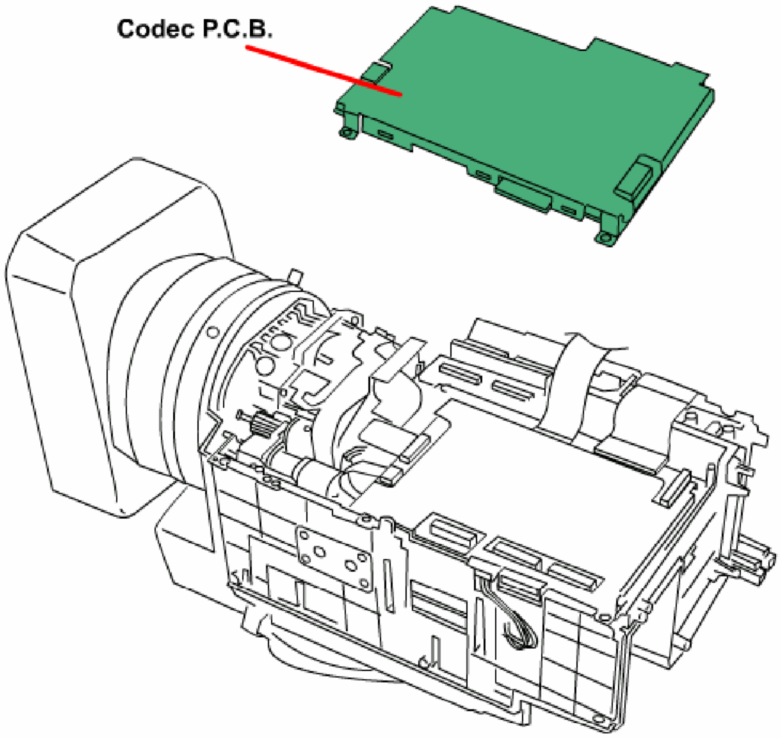
2 Pull out the 2 codec-P2 FPCs.

3 Remove the 4 screws.

4 Remove the codec P.C.B.

Auto Play ON OFF

15 CODEC P.C.B.



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the CAM-TOP FPC

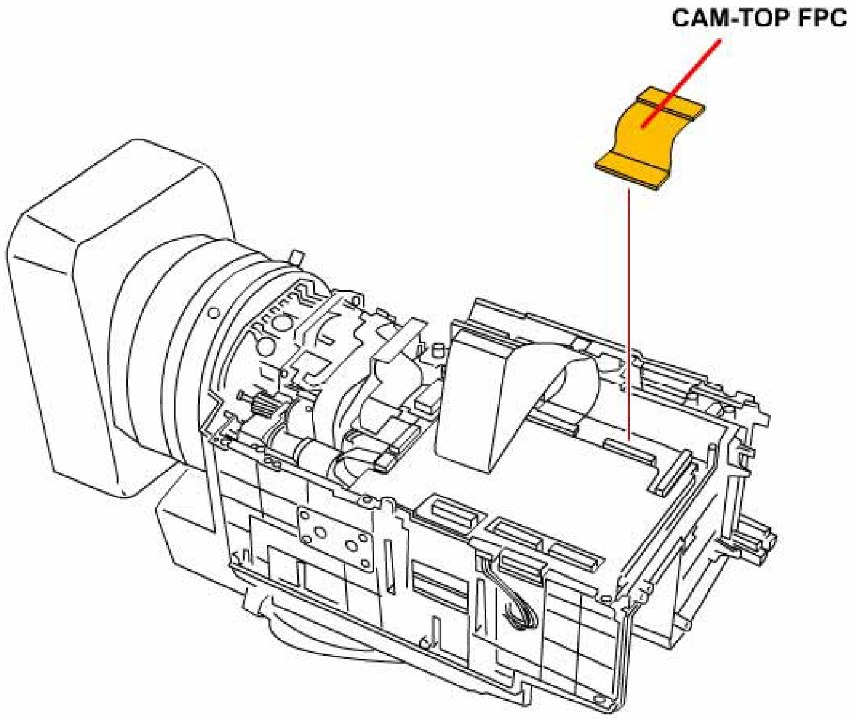
2 Remove the 3 connectors.

3 Remove the 4 screws.

4 Remove the camera P.C.B.

Auto Play ON OFF

16 Camera P.C.B.



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly | Assembly

1 Remove the CAM-TOP FPC

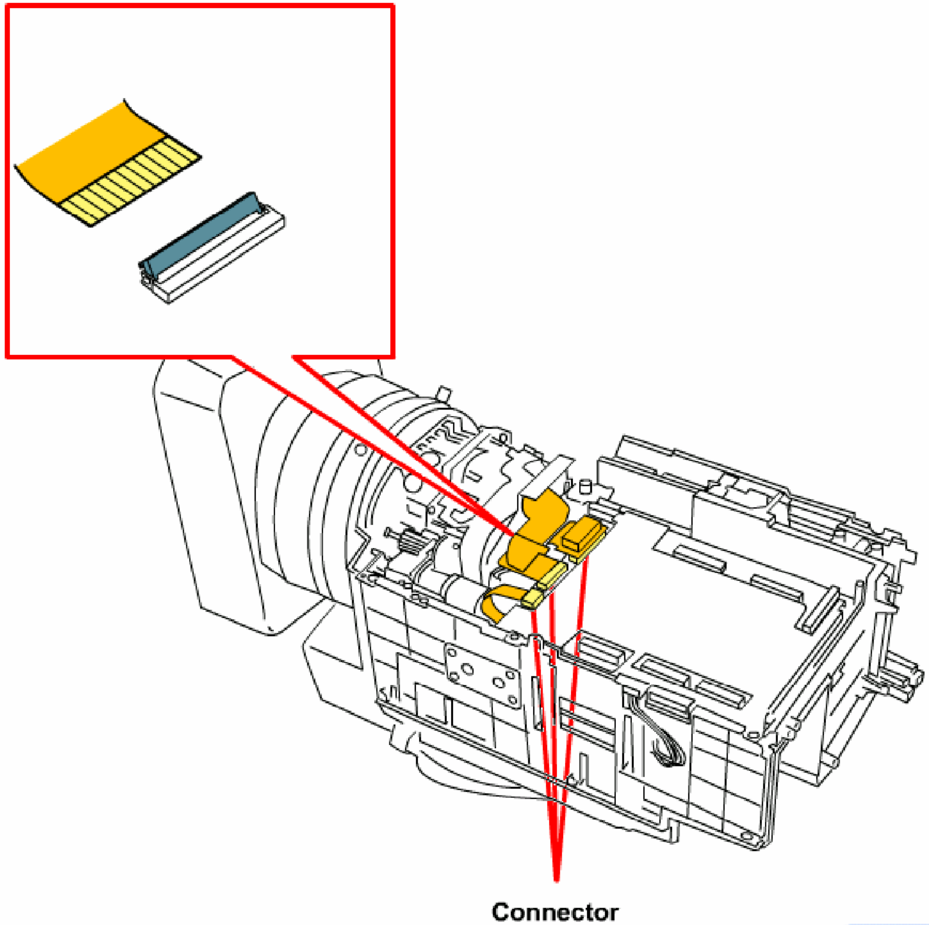
2 Remove the 3 connectors.

3 Remove the 4 screws.

4 Remove the camera P.C.B.

Auto Play ON OFF

16 Camera P.C.B.



PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the CAM-TOP FPC

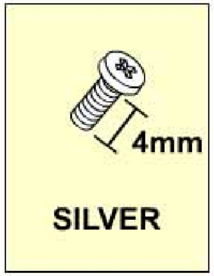
2 Remove the 3 connectors.

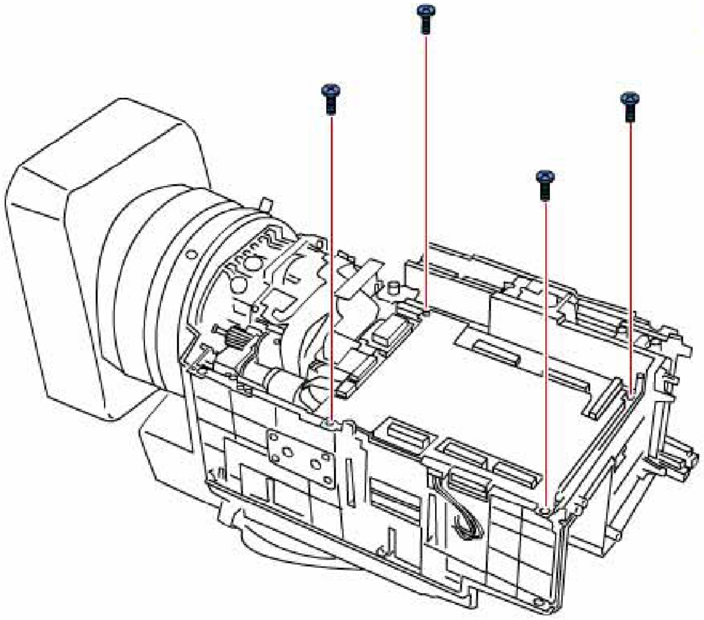
3 Remove the 4 screws.

4 Remove the camera P.C.B.

Auto Play ON OFF

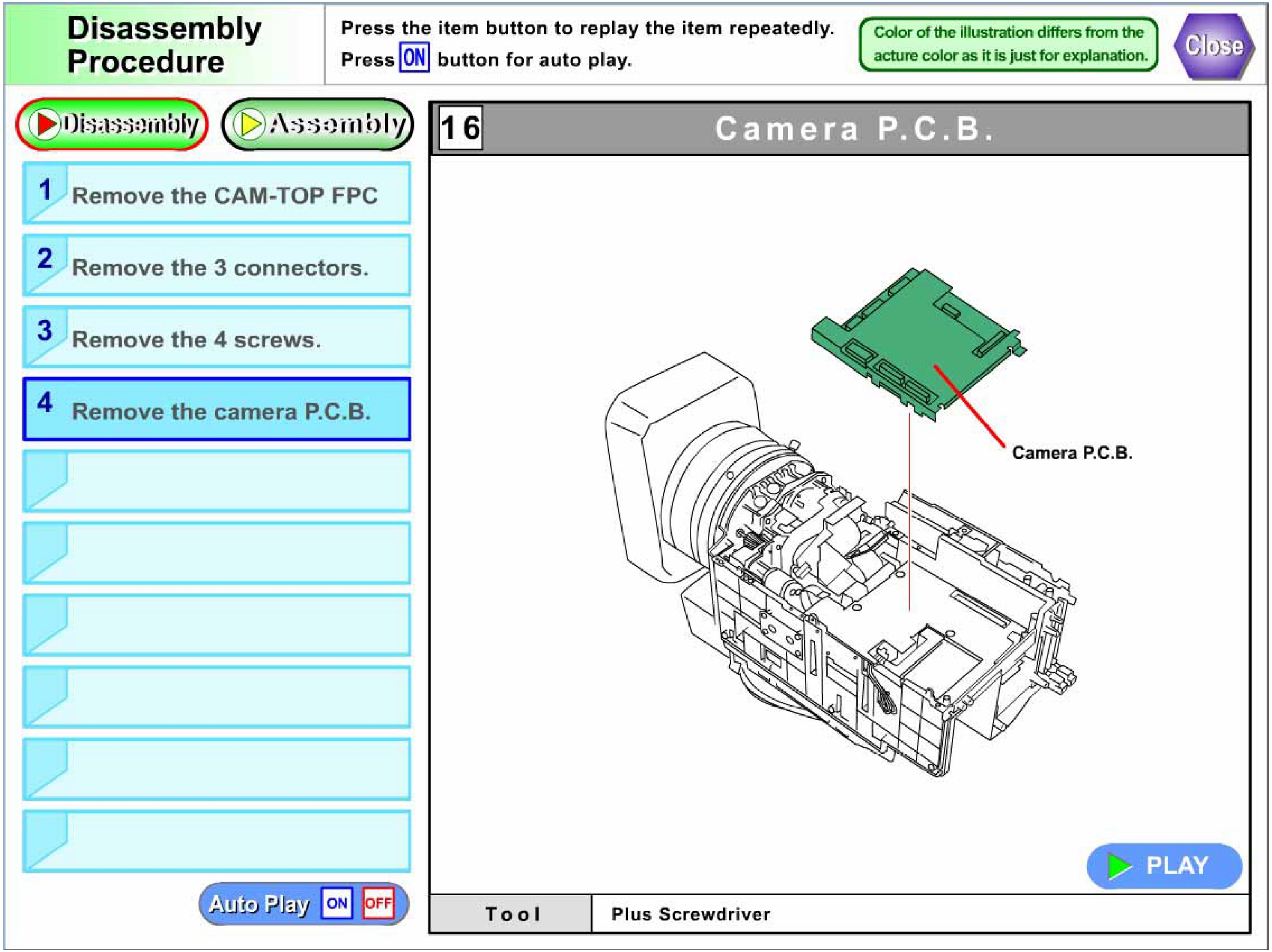
16 Camera P.C.B.





PLAY

Tool	Plus Screwdriver


Disassembly
Assembly
Close
PLAY
Auto Play
ON
OFF
Camera P.C.B.

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

1 Remove the CAM-TOP FPC

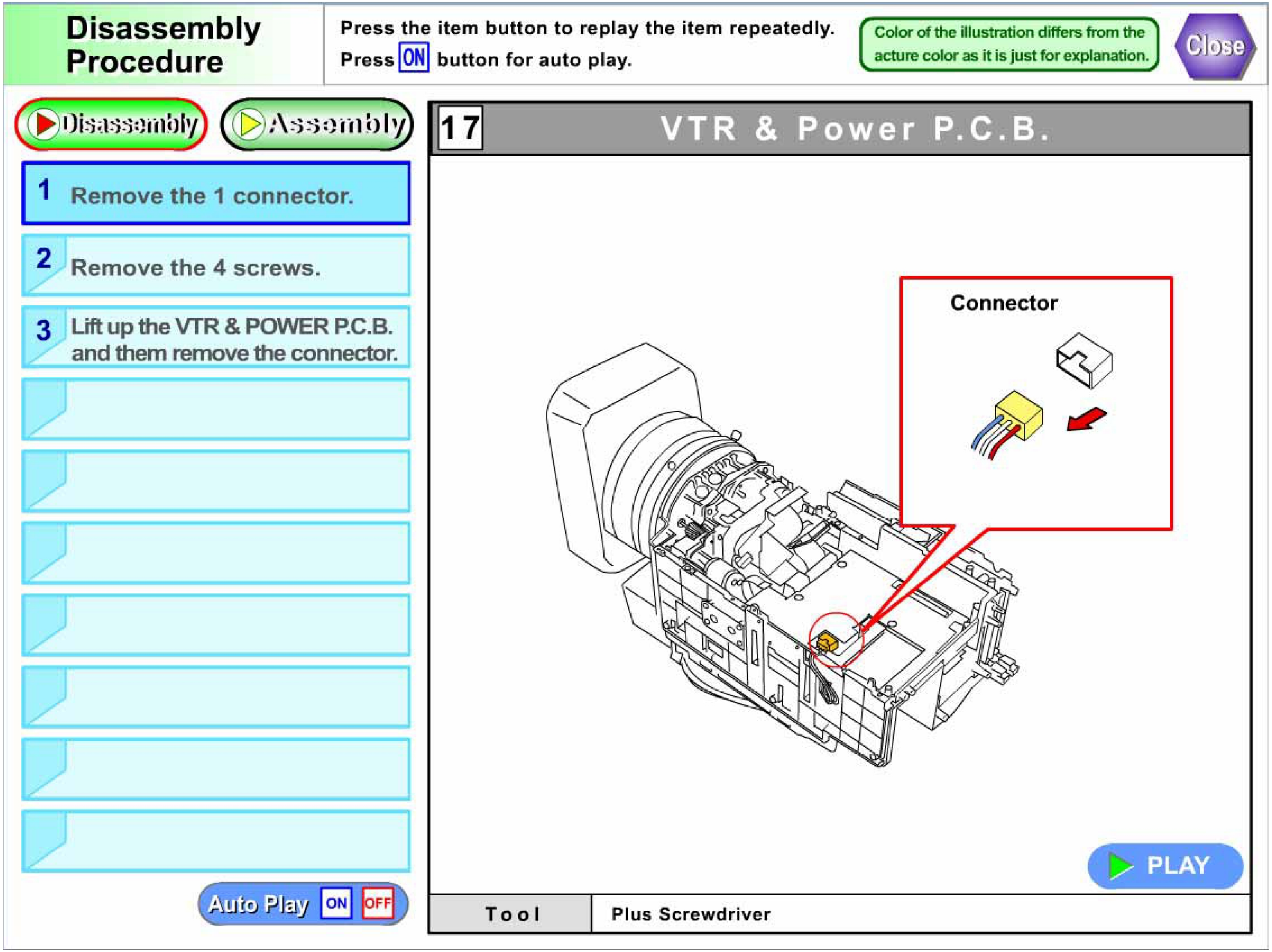
2 Remove the 3 connectors.

3 Remove the 4 screws.

4 Remove the camera P.C.B.

16 Camera P.C.B.

Tool	Plus Screwdriver



Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

17 VTR & Power P.C.B.

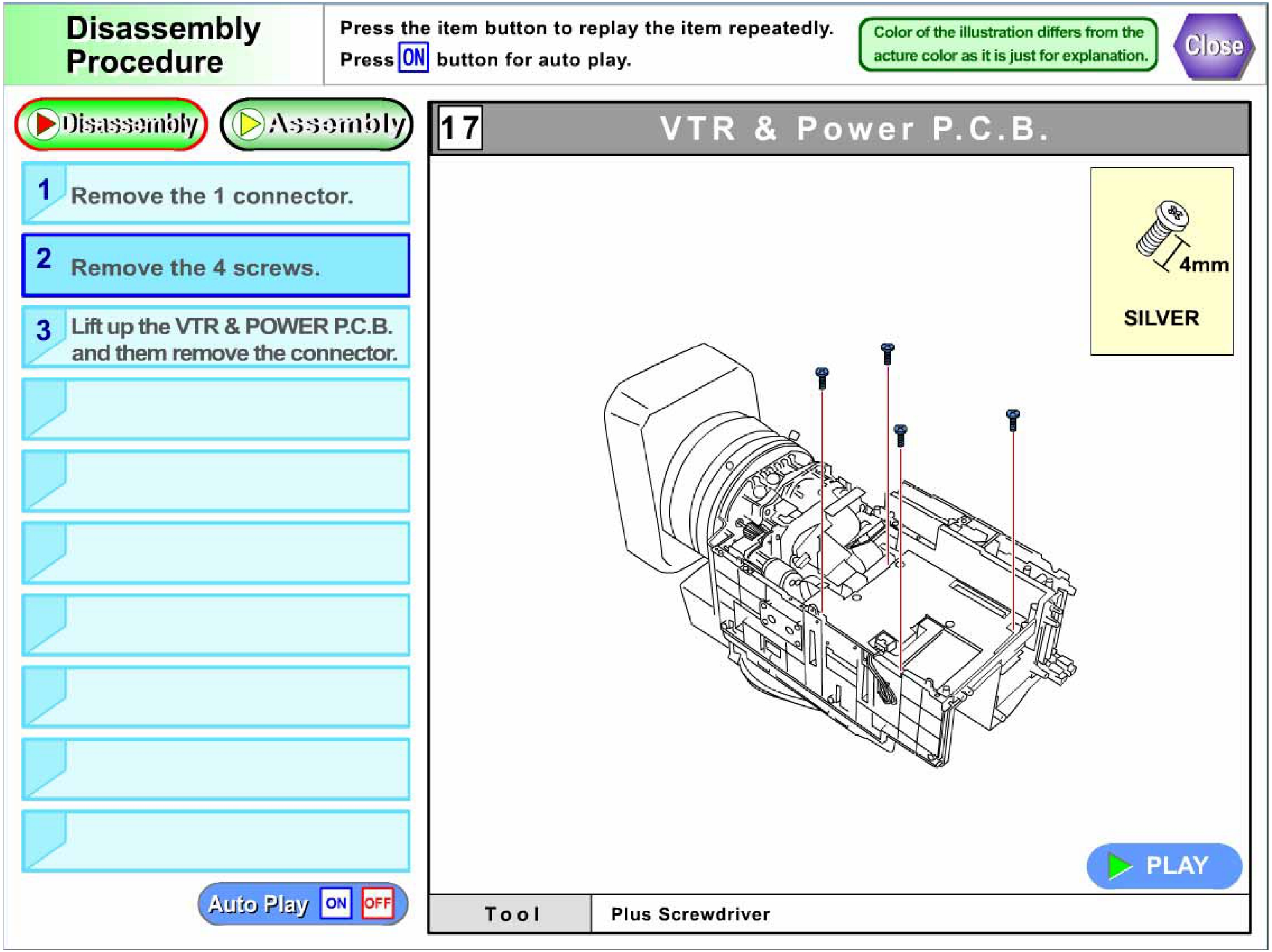
1 Remove the 1 connector.

2 Remove the 4 screws.

3 Lift up the VTR & POWER P.C.B. and them remove the connector.

Tool	Plus Screwdriver

Close
Disassembly
Assembly
Connector
PLAY
Auto Play
ON
OFF


Disassembly
Assembly
Close
4mm
SILVER
PLAY
Auto Play ON OFF

Disassembly Procedure

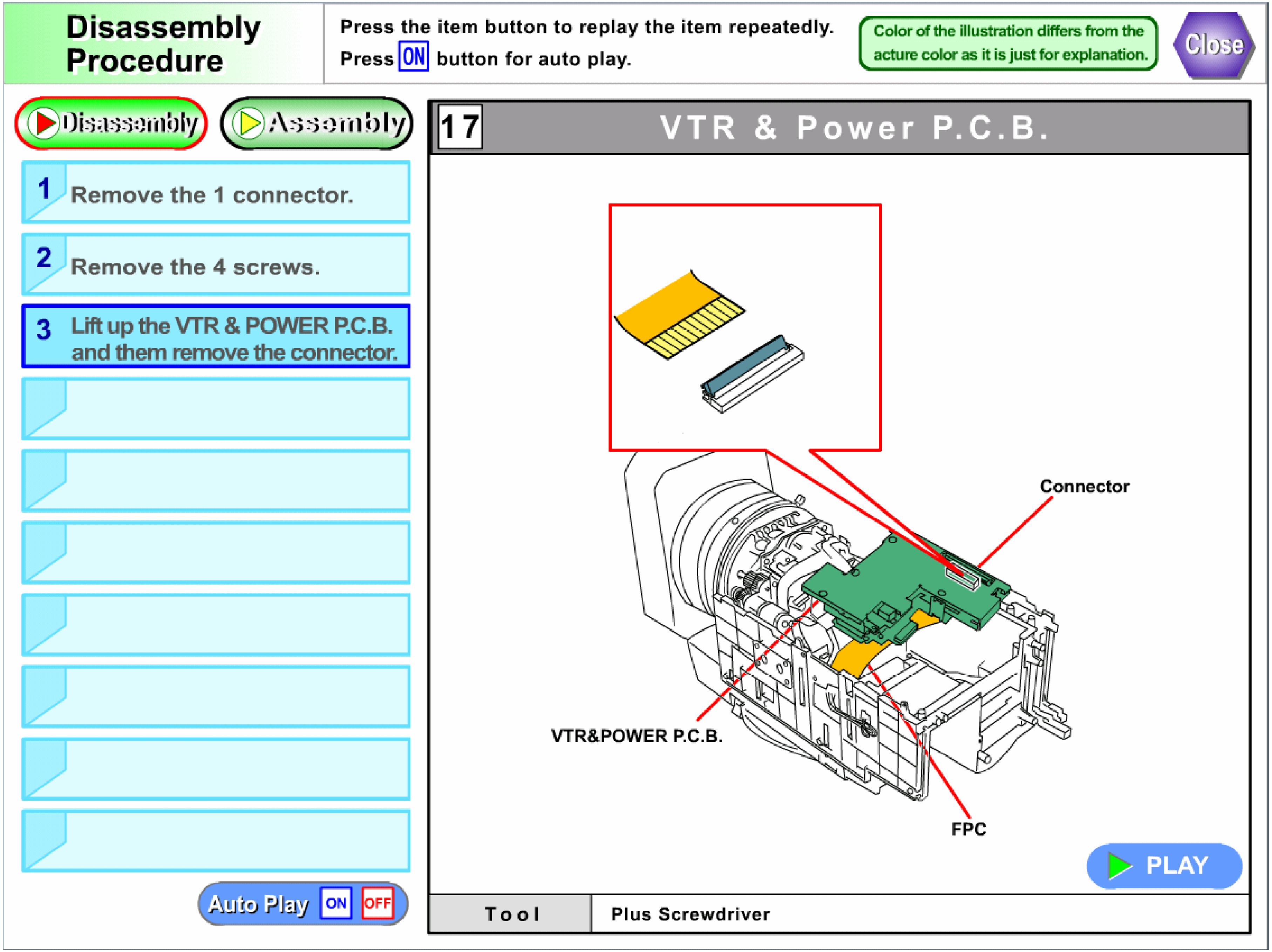
Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

17 VTR & Power P.C.B.

1 Remove the 1 connector.
2 Remove the 4 screws.
3 Lift up the VTR & POWER P.C.B. and them remove the connector.

Tool	Plus Screwdriver



Disassembly Procedure
ON
Color of the illustration differs from the acture color as it is just for explanation.
Close
Disassembly
Assembly
Connector
VTR&POWER P.C.B.
FPC
PLAY
Auto Play
ON
OFF

Press the item button to replay the item repeatedly.
Press ON button for auto play.

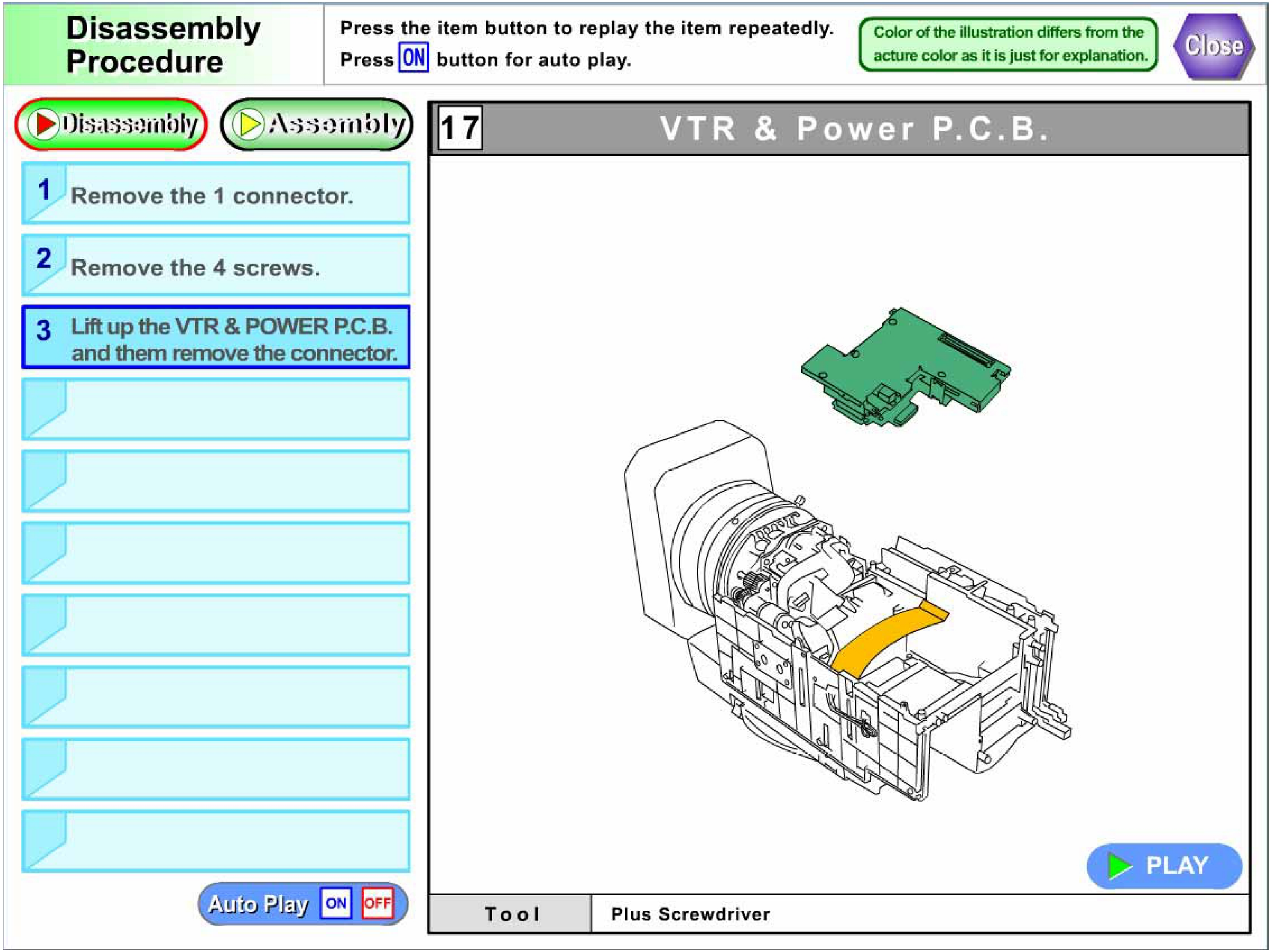
17 VTR & Power P.C.B.

1 Remove the 1 connector.

2 Remove the 4 screws.

3 Lift up the VTR & POWER P.C.B. and them remove the connector.

Tool	Plus Screwdriver



Disassembly Procedure

Press the item button to replay the item repeatedly.

Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

17 VTR & Power P.C.B.

1 Remove the 1 connector.

2 Remove the 4 screws.

3 Lift up the VTR & POWER P.C.B. and them remove the connector.

Tool	Plus Screwdriver

Close
Disassembly
Assembly
PLAY
Auto Play
ON
OFF

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

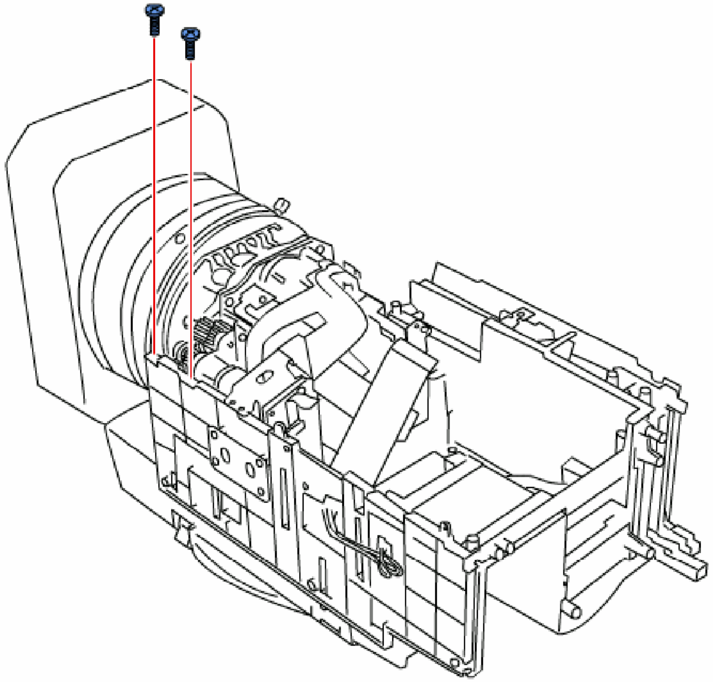
Close

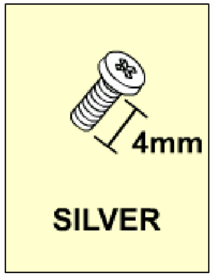
Disassembly Assembly

- 1 Remove the 2 screws.
- 2 Remove the clutch unit.
- 3 Remover the 2 screws.
- 4 Remove the JYRO unit.
- 5 Remove the 2 screws.
- 6 Remove the lens unit.

Auto Play ON OFF

18 Lens Unit





PLAY

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the 2 screws.

2 Remove the clutch unit.

3 Remover the 2 screws.

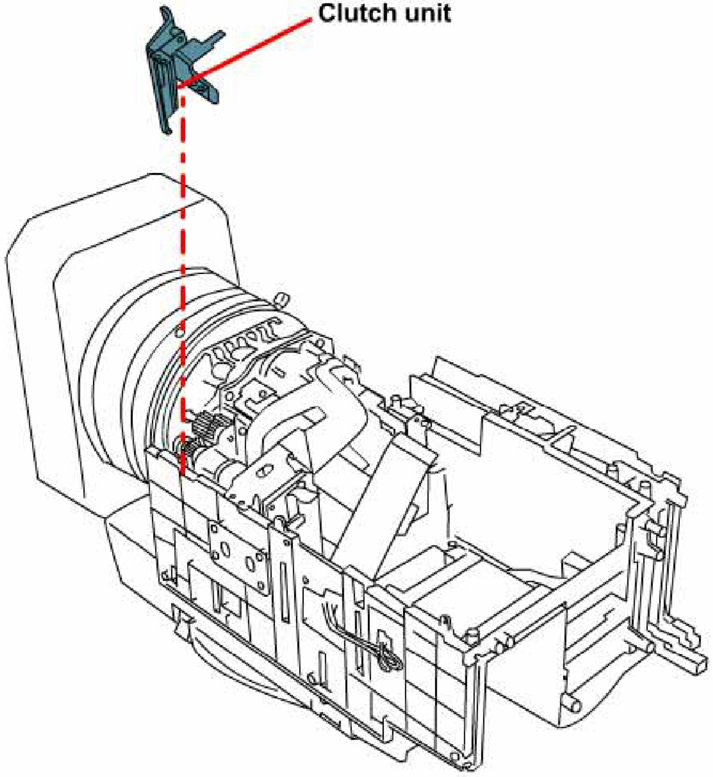
4 Remove the JYRO unit.

5 Remove the 2 screws.

6 Remove the lens unit.

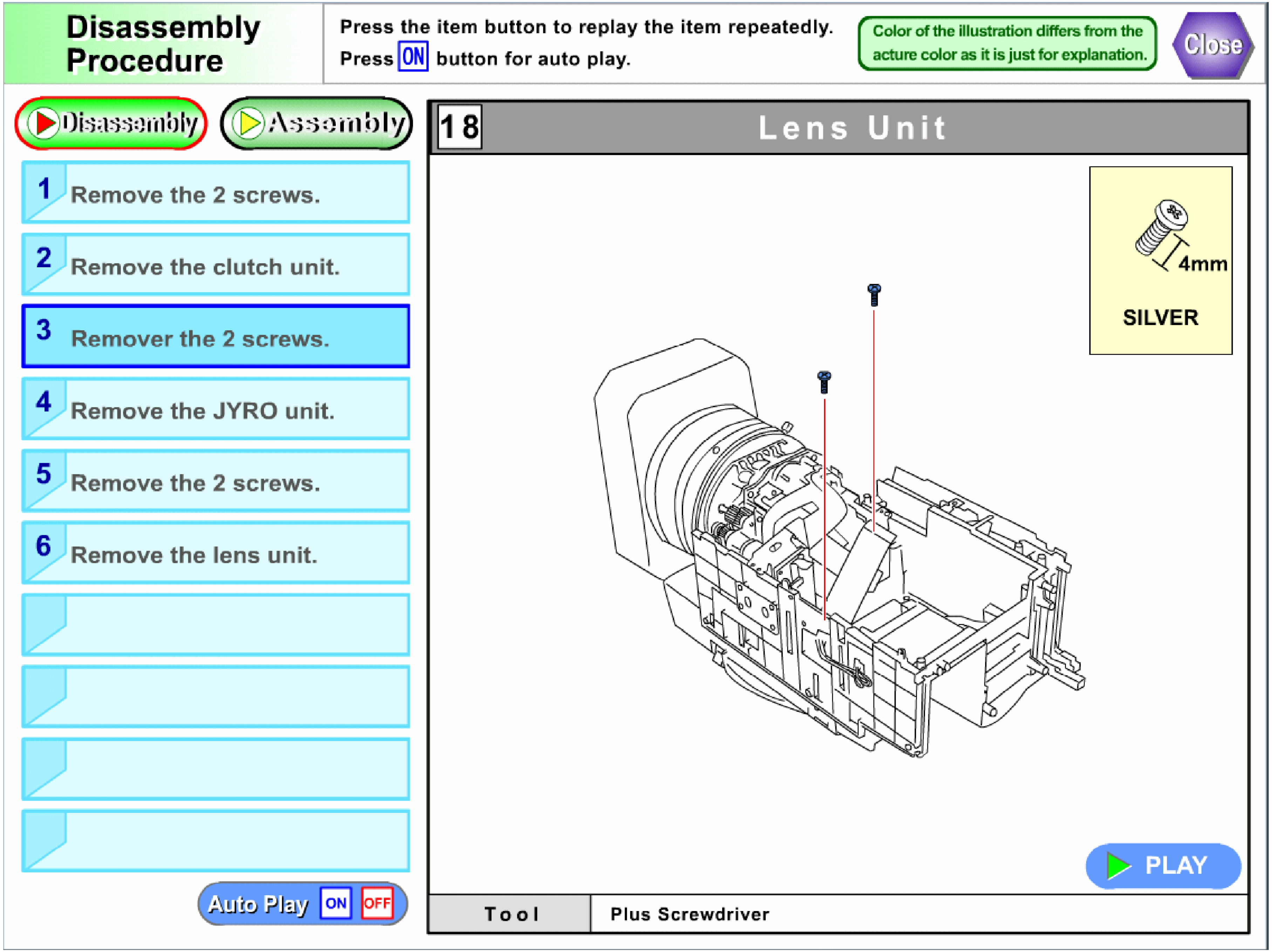
Auto Play ON OFF

18 Lens Unit



PLAY

Tool	Plus Screwdriver


Disassembly
Assembly
Close
4mm
SILVER
PLAY
Auto Play
ON
OFF

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

18 Lens Unit

1 Remove the 2 screws.
2 Remove the clutch unit.
3 Remover the 2 screws.
4 Remove the JYRO unit.
5 Remove the 2 screws.
6 Remove the lens unit.

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

Disassembly Assembly

1 Remove the 2 screws.

2 Remove the clutch unit.

3 Remover the 2 screws.

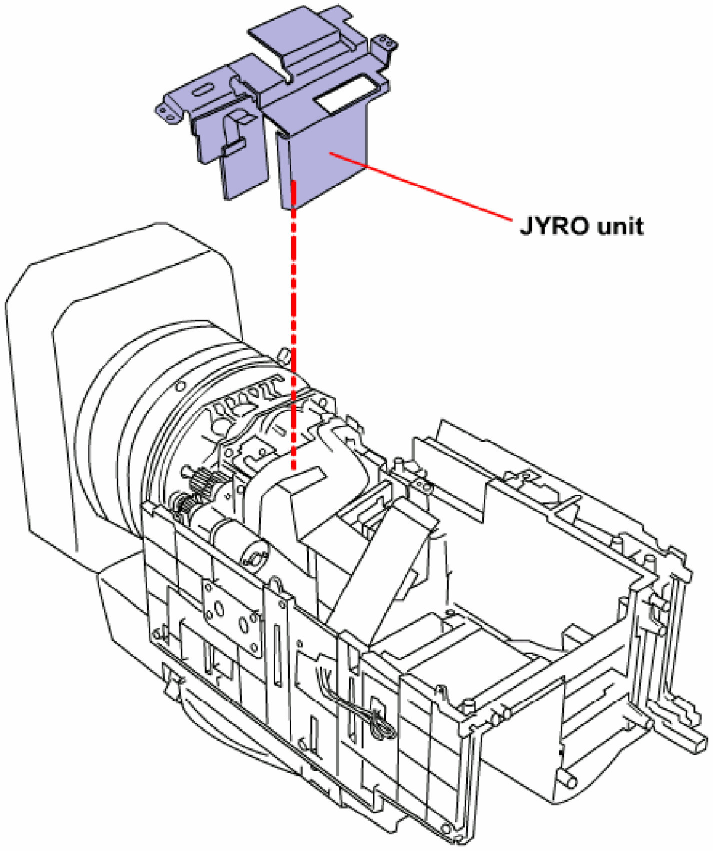
4 **Remove the JYRO unit.**

5 Remove the 2 screws.

6 Remove the lens unit.

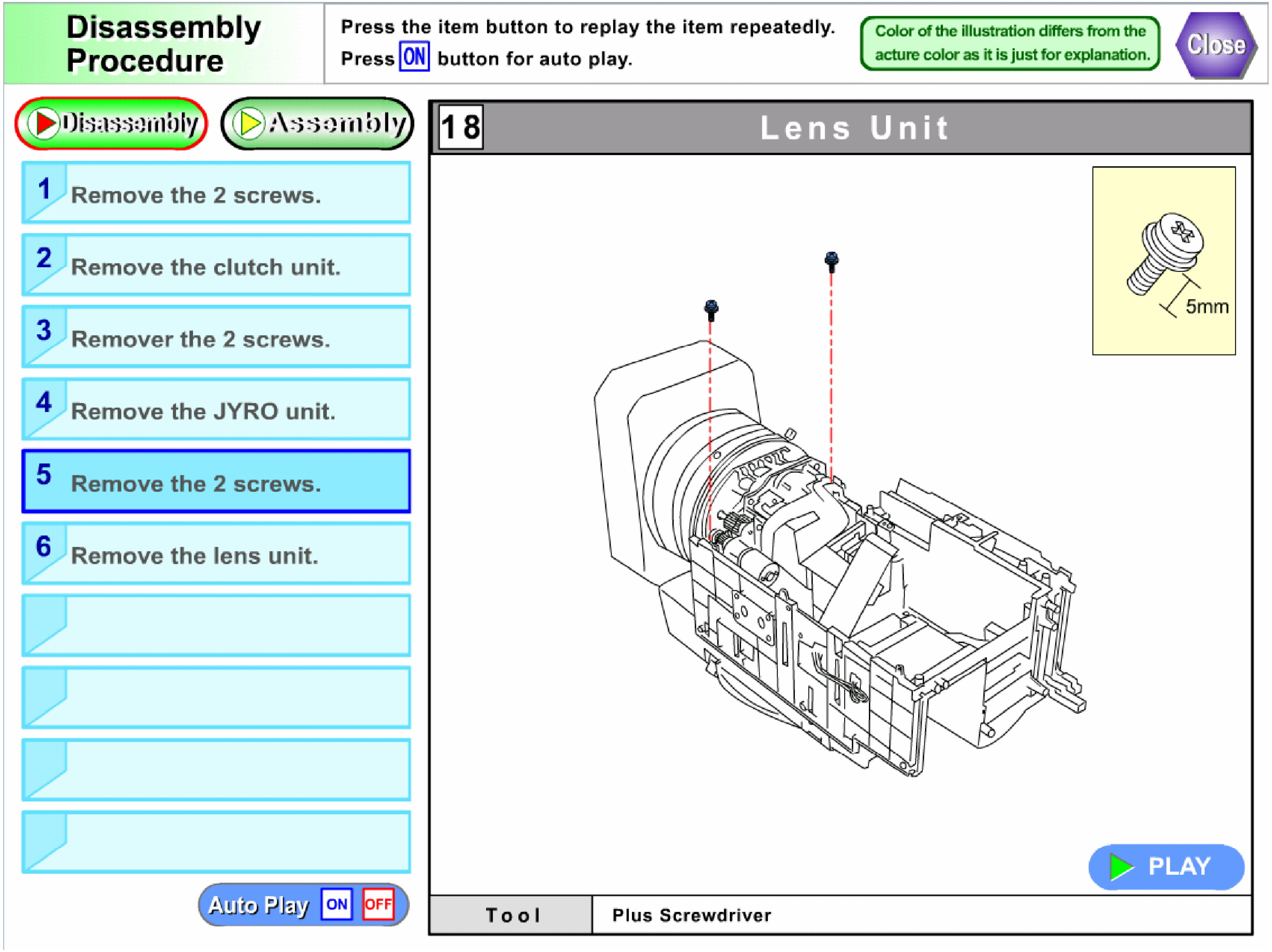
Auto Play ON OFF

18 Lens Unit



PLAY

Tool	Plus Screwdriver


Disassembly
Assembly
Close
PLAY
Auto Play ON OFF
5mm

Disassembly Procedure

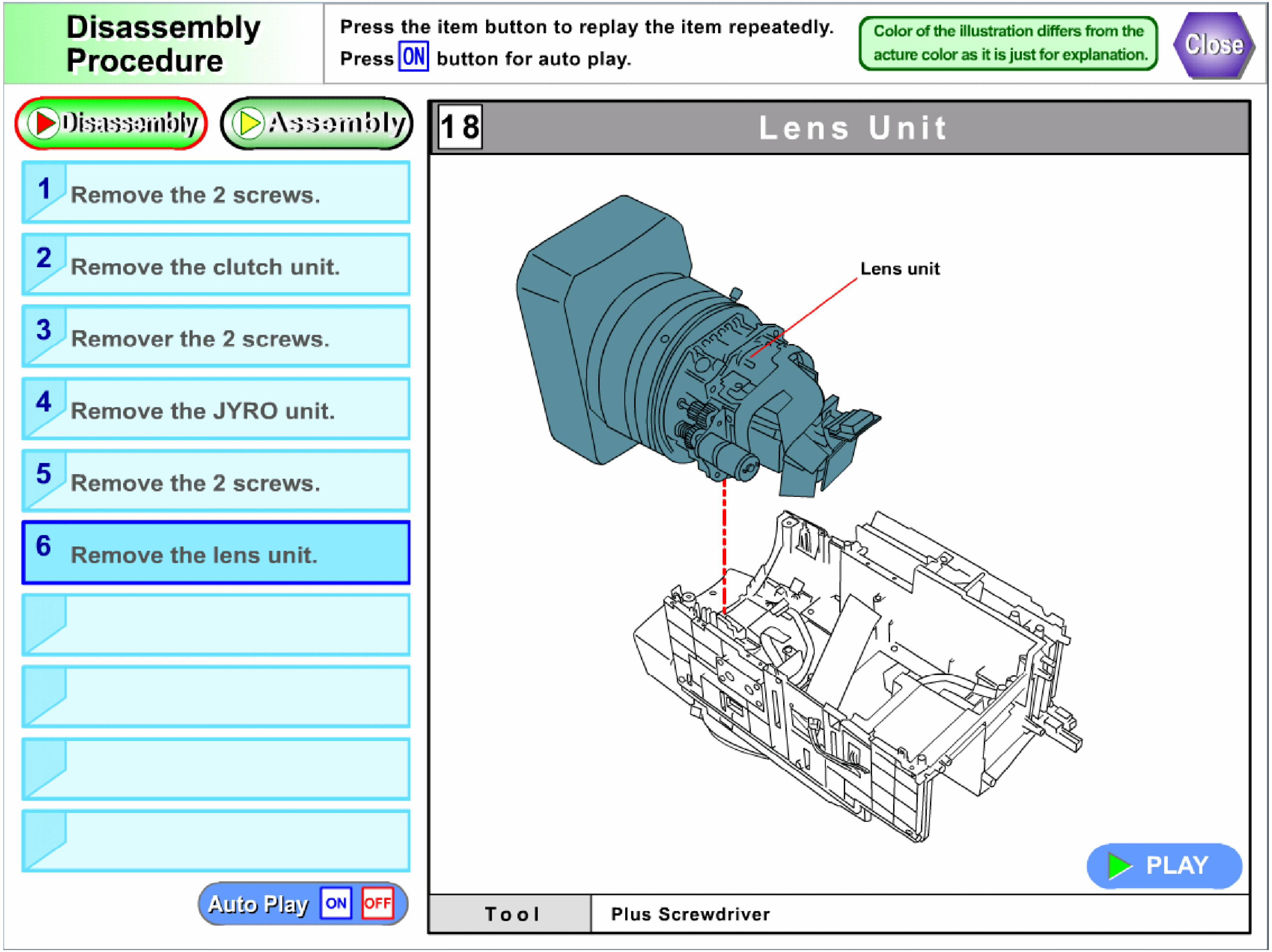
Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

18 Lens Unit

1 Remove the 2 screws.
2 Remove the clutch unit.
3 Remover the 2 screws.
4 Remove the JYRO unit.
5 Remove the 2 screws.
6 Remove the lens unit.

Tool	Plus Screwdriver


Disassembly
Assembly
Close
PLAY
Auto Play ON OFF
Lens unit

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

18 Lens Unit

1 Remove the 2 screws.
2 Remove the clutch unit.
3 Remover the 2 screws.
4 Remove the JYRO unit.
5 Remove the 2 screws.
6 Remove the lens unit.

Tool	Plus Screwdriver

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

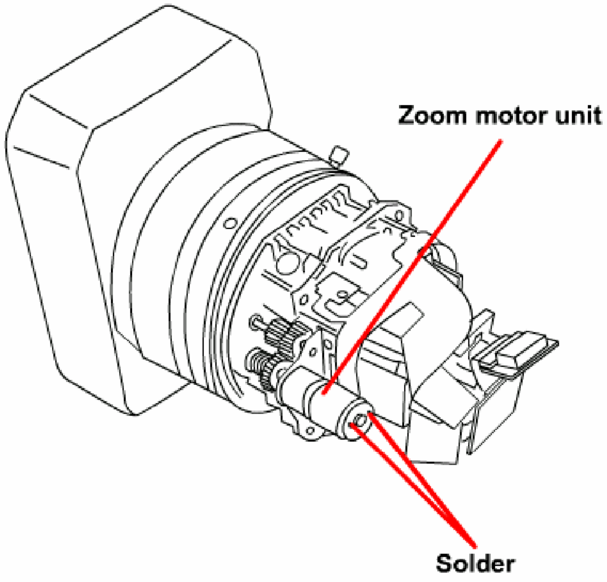
Disassembly Assembly

1 Unsolder the Zoom motor flex (2 points).

2 Remove the 2 screws.

3 Remove the Zoom motor unit.

19 Zoom Motor Unit



PLAY

Auto Play ON OFF

Tool

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

Close

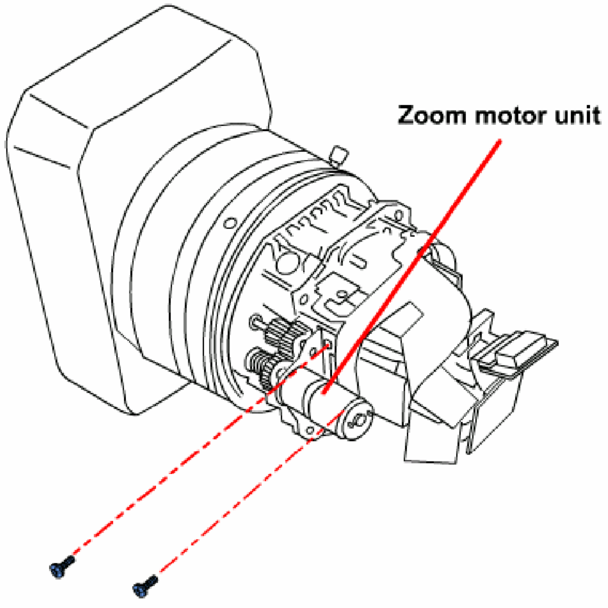
Disassembly Assembly

19 Zoom Motor Unit

1 Unsolder the Zoom motor flex (2 points).

2 Remove the 2 screws.

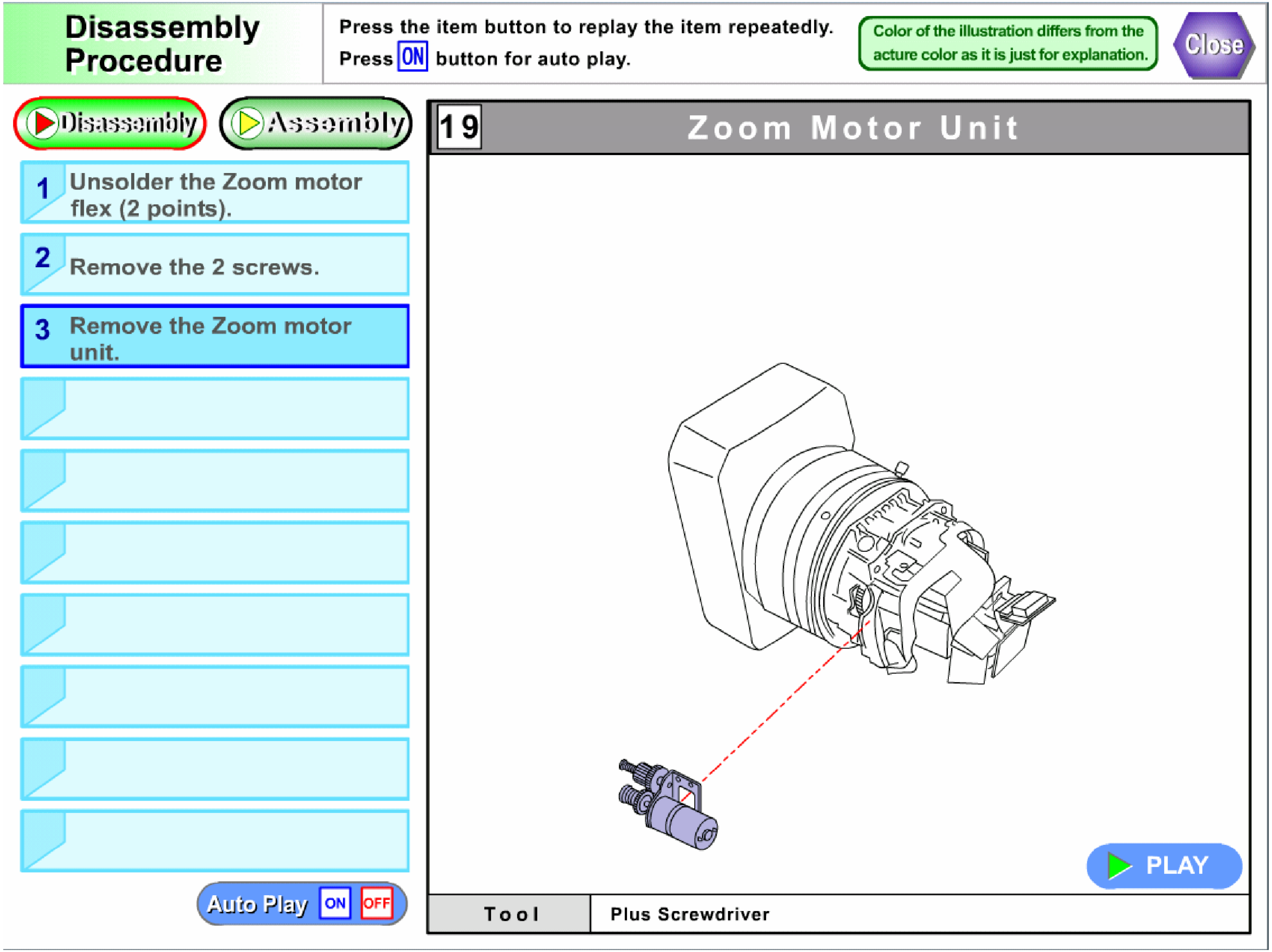
3 Remove the Zoom motor unit.



PLAY

Auto Play ON OFF

Tool	Plus Screwdriver


Disassembly
Assembly
Close
PLAY
Auto Play ON OFF

Disassembly Procedure

Press the item button to replay the item repeatedly.
Press ON button for auto play.

Color of the illustration differs from the acture color as it is just for explanation.

19 Zoom Motor Unit

1 Unsolder the Zoom motor flex (2 points).

2 Remove the 2 screws.

3 Remove the Zoom motor unit.

Tool	Plus Screwdriver

SECTION 3

MECHANICAL ADJUSTMENT

MODEL: AG-HVX200P/AN/E/MC/HVX202EN

CONTENTS

1. Mechanical adjustment and confirmation MECH-1
    1-1. Name of Tape Transportation MECH-1
    1-2. Tape Path Adjustment Procedure MECH-1
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    1-8. LISTA Sensitivity Detection MECH-7
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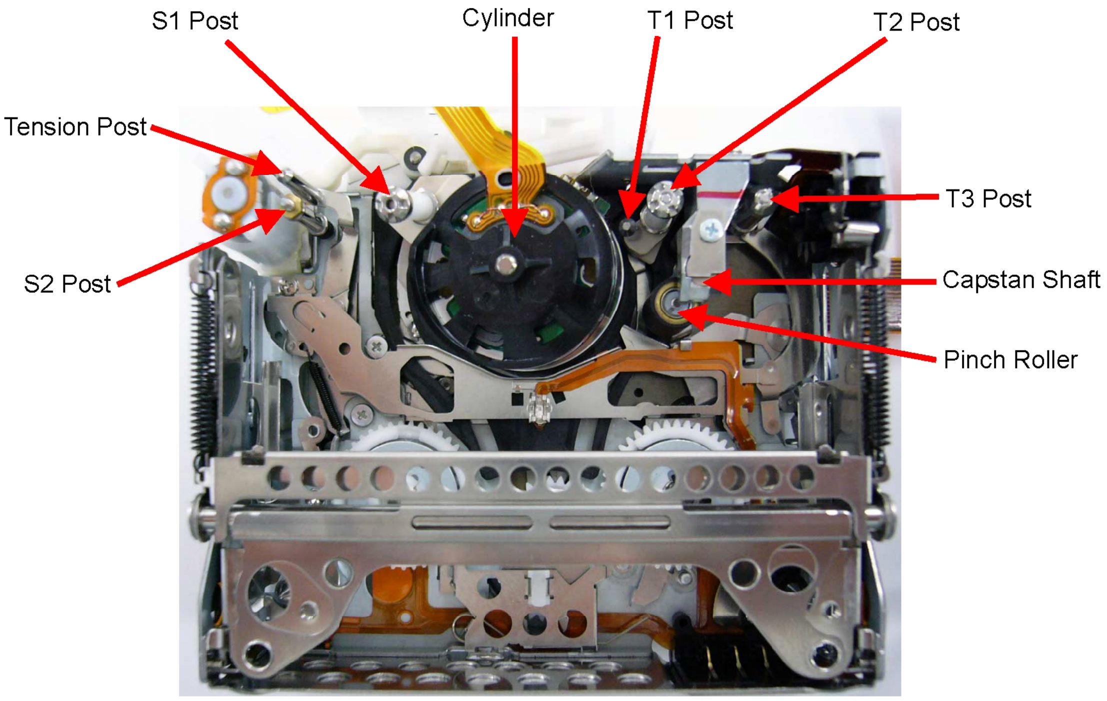
2. Mechanical parts replacement procedure MECH-11
    2-1. Cleaning Roller Unit MECH-11

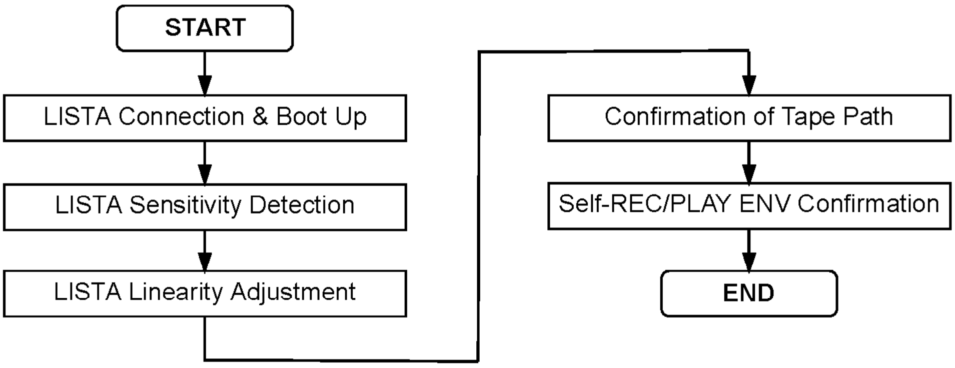
1. Mechanical adjustment and confirmation

1-1. Name of Tape Transportation


S1 Post
Cylinder
T1 Post
T2 Post
Tension Post
T3 Post
S2 Post
Capstan Shaft
Pinch Roller

LOADING condition

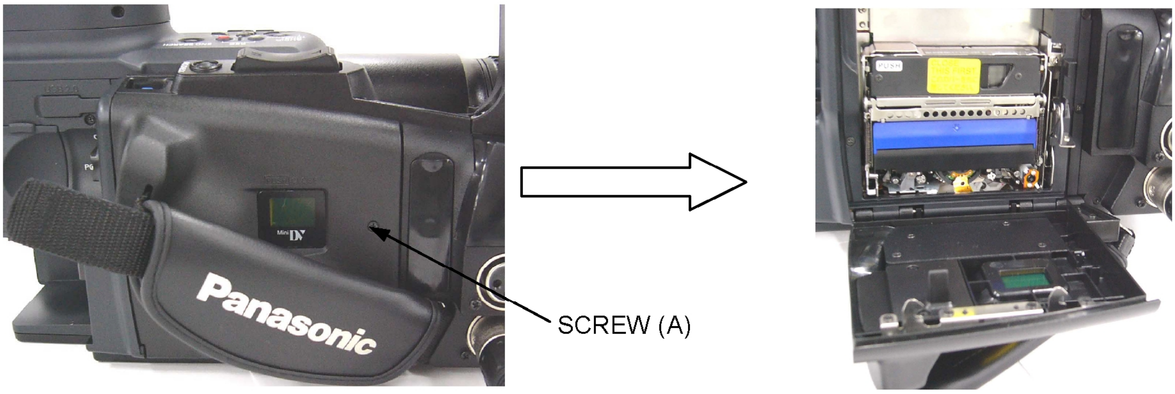
1-2. Tape Path Adjustment Procedure


START
LISTA Connection & Boot Up
LISTA Sensitivity Detection
LISTA Linearity Adjustment
Confirmation of Tape Path
Self-REC/PLAY ENV Confirmation
END

1-3. Adjustment of S1 and T2 Post

LISTA linearity and Envelope waveform are adjusted by S1 and T2 post.
To adjust height of S1 and T2 post, below indicated operation is required.

1. Set to TAPE-VCR mode in camera recorder and open the cassette cover.
2. Insert DV cassette tape and confirm that the camera recorder is in the loading completion condition.
3. Close the cassette cover.
4. Unscrew the screw (A) and open the cassette cover.



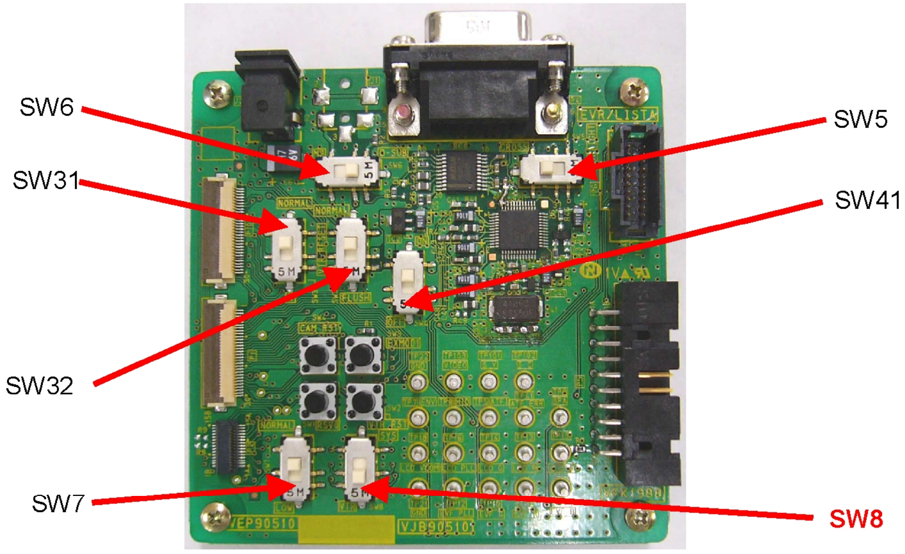
1-4. Connection of Measuring Board

To performing the confirmation of envelope (item “1-11. Self-REC/PLAY Envelope Waveform Confirmation”), the following tools are required.

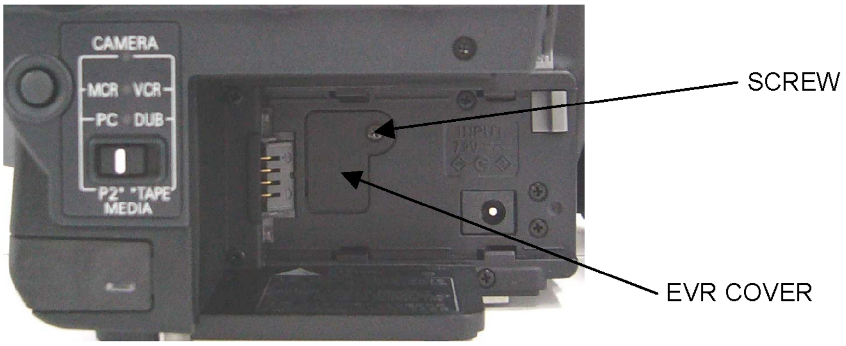
NAME	Part Number	Pcs.	Remark
Measuring Board	VFK1988	1	
Extension Cable	VFK1989	1	
DC Cable	K2GJ2DC00002 or VJA1128	1	For AG-HVX200/202
AC Adapter	-----	1	For AG-HVX200/202

To confirm the envelope output, connect the Measuring Boards as follows.

1. Set the SW8 to VTR side.

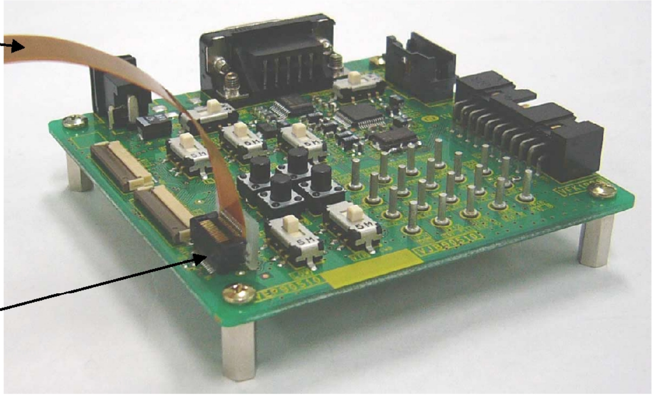


2. Loosen the screw and remove the EVR COVER.


CAMERA
MCR
VCR
PC
DUB
P2*
*TAPE
MEDIA
SCREW
EVR COVER

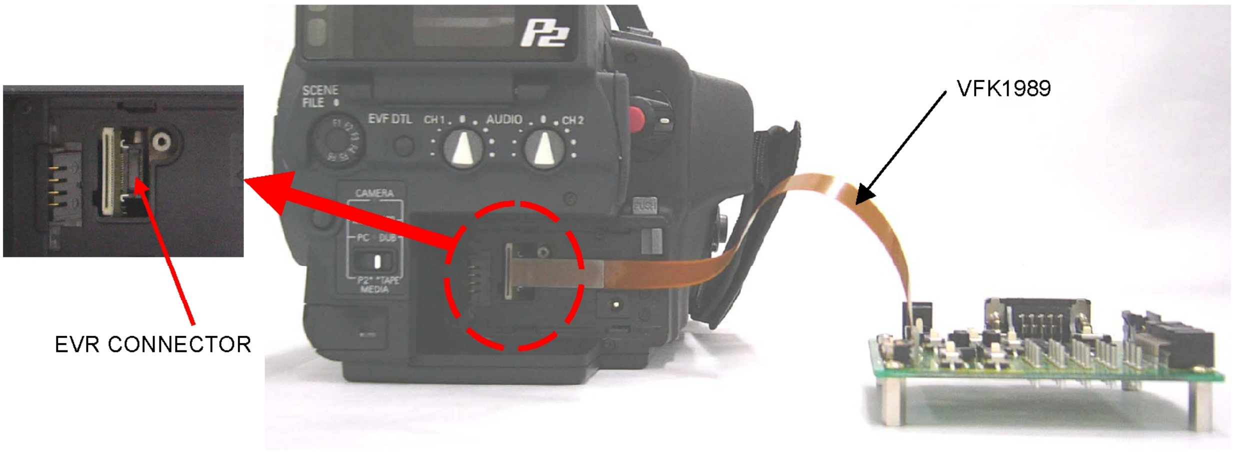
3. Connect the Extension Cable (VFK1989) to connector P2 on Measuring Board (VFK1988)

Connect VFK1989 with connector P2 as shown in picture.
The unit will not work if the connector is attached backwards.



4. Connect the Extension Cable (VFK1989) to EVR connector in Unit. Then make sure that the direction of the VFK1989 is correct as shown in Figure.

When the VFK1989 is connected to EVR connector, be careful of the direction of connector on VFK1989. Please follow as shown in the figure.


P2
SCENE FILE
EVF DTL
CH1
AUDIO
CH2
CAMERA
PC
DUB
P2*
*TAPE
MEDIA
VFK1989
EVR CONNECTOR

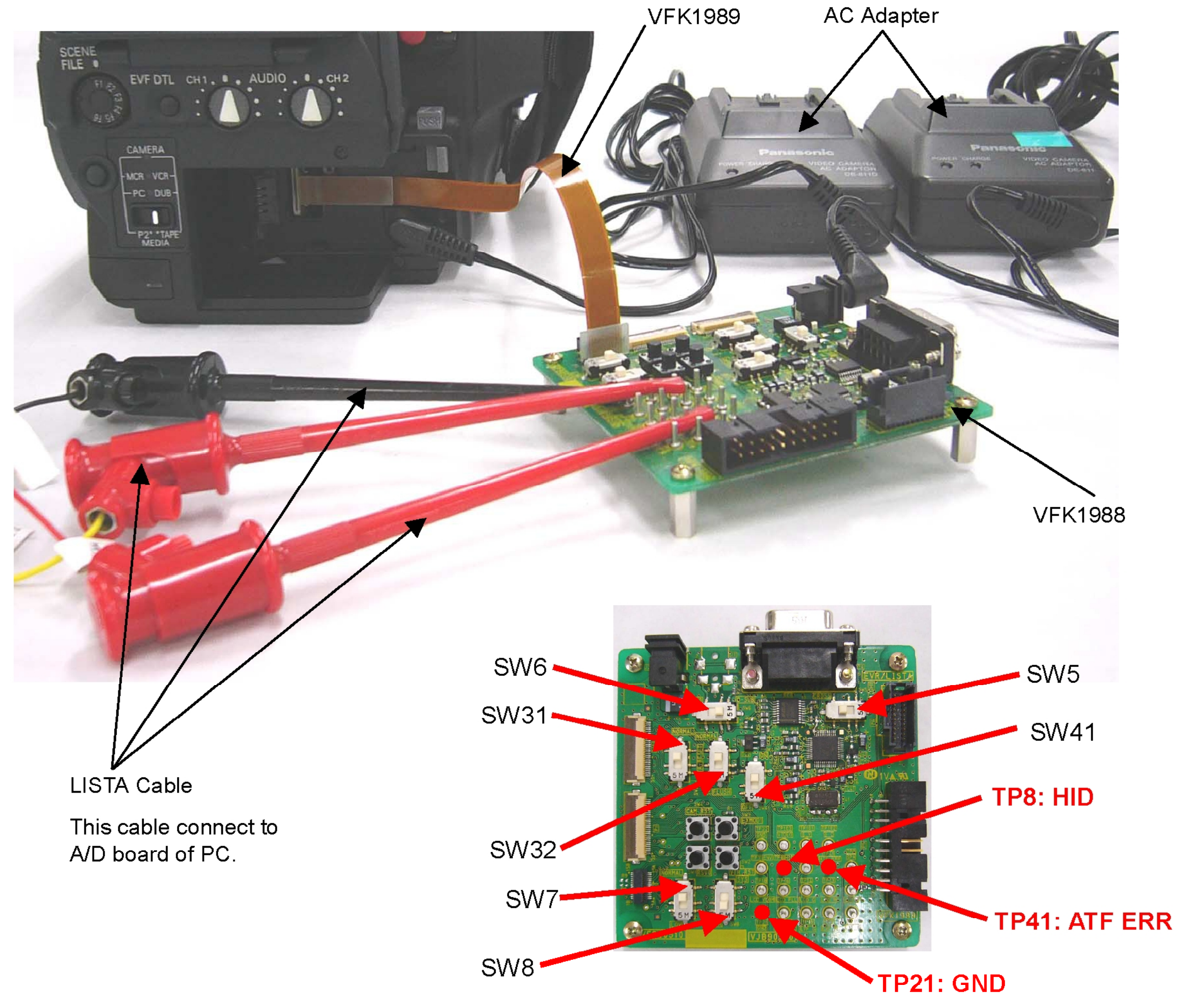
1-5. Connection of LISTA Adjustment System

TAPE	VFM3000LS (DV LISTA)
M. EQ	Personal Computer (A/D Board should be installed.)
TOOL	VFK1481N (LISTA Software), VFK1186 (LISTA Cable), VFK1300 (A/D Converter Board), VFK1988 (Measuring Board), VFK1989 (Extension Cable)
TP	**TP41** : ATF ERR, **TP8** : HID , **GND** : TP21 or 22

1. Connect the Measuring Board (refer to item "1-4. Connection of Measuring Board").
2. Confirm that the switches on the Measuring Board set to setting position as shown in the table below.

NAME	SETTING POSITION
SW5	CROSS
SW6	D-SUB
SW7	NORMAL
SW8	VTR
SW31	NORMAL
SW32	NORMAL
SW41	ON

3. Supply DC6V-9V to the Measuring Board (VFK1988). Please use the DC cable and AC Adapter to supply DC voltage to Measuring Board.
4. Connect the clips of the LISTA cable to test point on the Measuring Board.


VFK1989
AC Adapter
VFK1988
LISTA Cable
SW6
SW31
SW32
SW7
SW8
SW5
SW41
TP8: HID
TP41: ATF ERR
TP21: GND

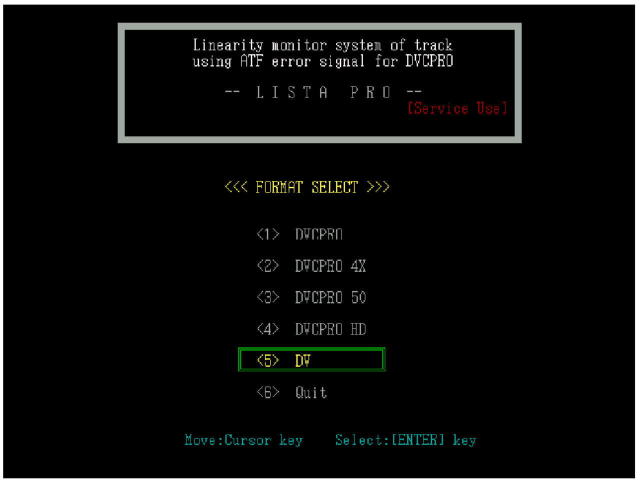
This cable connect to A/D board of PC.

1-6. Boot up the LISTA Software

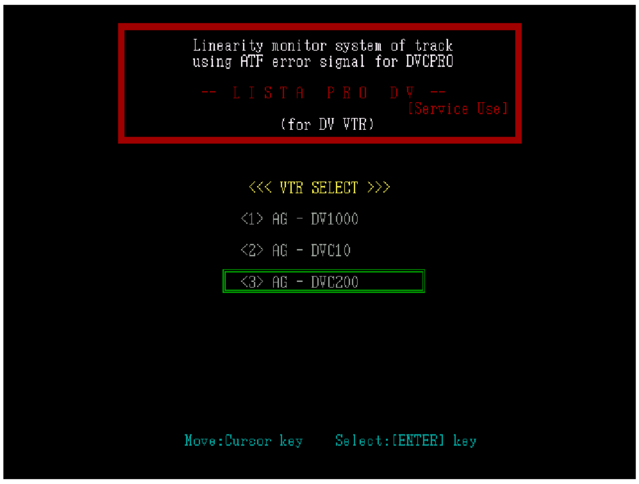
1. Boot up the LISTA software on DOS mode.

< How to Install and Boot Up >
Make a directory like C: LISTA and copy all files in the VFK1481N(LISTA Software) to it on PC.
Type **"LISTA"** and press **ENTER** key, then boot up the LISTA software VFK1481N.

2. After boot up the LISTA software, **<<< FORMAT SELECT >>>** display appears. Select the item **"DV"**. After select the format, **<<< VTR SELECT >>>** display appears, and select the model **"AG-DVC200"**.



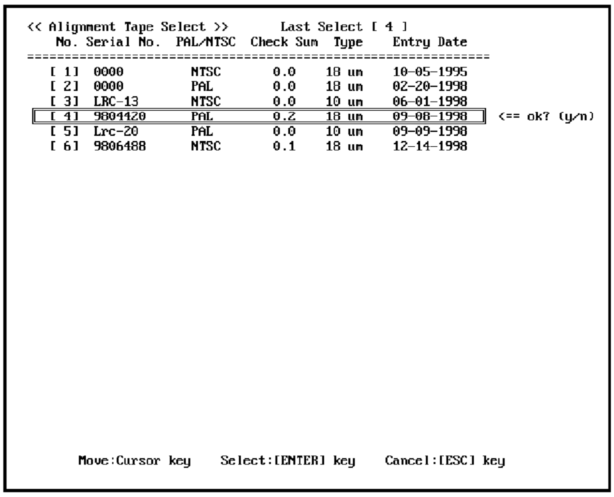
```
Linearity monitor system of track
using ATF error signal for DVCPRO

-- L I S T A   P R O --
                  [Service Use]

<<< FORMAT SELECT >>>

<1>  DVCPRO
<2>  DVCPRO 4X
<3>  DVCPRO 50
<4>  DVCPRO HD
<5>  DV
<6>  Quit

Move:Cursor key     Select:[ENTER] key
```



```
Linearity monitor system of track
using ATF error signal for DVCPRO

-- L I S T A   P R O   D V --
                    [Service Use]
         (for DV VTR)

<<< VTR SELECT >>>

<1> AG - DV1000
<2> AG - DVC10
<3> AG - DVC200

Move:Cursor key     Select:[ENTER] key
```

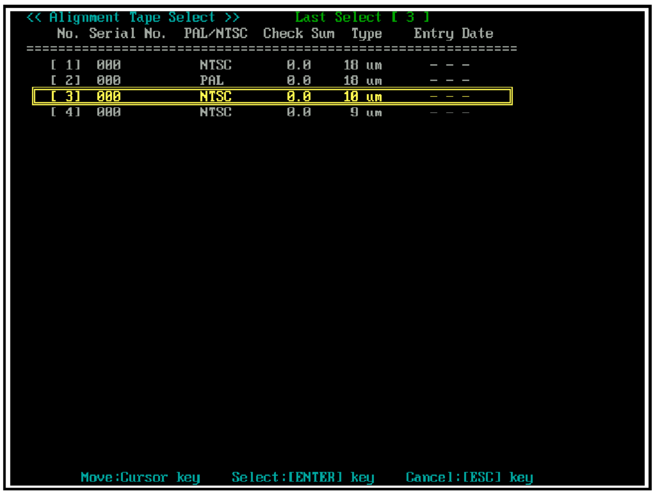
3. Next, select the Serial number of the Alignment tape on the screen. In case of LISTA software is not entered with data of alignment tape, press the ESC key, then main menu is displayed on the screen. And select the item **"<4> Alignment Tape"** for entry the data on the attachment sheet, which is enclosed with alignment tape.
4. In case of LISTA software has entered data of alignment tape, select the serial number of Alignment tape, then message appears **"ok? (y/n)"** on the screen. And press **" Y "** or **" ENTER "** key, then LISTA main menu is displayed on screen.

< In case of Alignment Tape entered already >



```
<< Alignment Tape Select >>       Last Select [ 4 ]
   No. Serial No.  PAL/NTSC  Check Sum  Type    Entry Date
===================================================================
  [ 1]  0000        NTSC        0.0     18 um    10-05-1995
  [ 2]  0000        PAL         0.0     18 um    02-20-1998
  [ 3]  LRC-13      NTSC        0.0     10 um    06-01-1998
  [ 4]  9804420     PAL         0.2     18 um    09-08-1998   <== ok? (y/n)
  [ 5]  Lrc-20      PAL         0.0     10 um    09-09-1998
  [ 6]  9806488     NTSC        0.1     18 um    12-14-1998

Move:Cursor key     Select:[ENTER] key     Cancel:[ESC] key
```

< In case of Alignment Tape does not entered >



```
<< Alignment Tape Select >>       Last Select [ 3 ]
   No. Serial No.  PAL/NTSC  Check Sum  Type    Entry Date
===================================================================
  [ 1]  000         NTSC        0.0     18 um      - - -
  [ 2]  000         PAL         0.0     18 um      - - -
  [ 3]  000         NTSC        0.0     10 um      - - -
  [ 4]  000         NTSC        0.0      9 um      - - -

Move:Cursor key     Select:[ENTER] key     Cancel:[ESC] key
```

1-7. How to Enter the Alignment Tape Data

1. Select the item **"<4> Alignment Tape"** on the LISTA main menu.
2. Select the item **"<2> ENTRY"** on the alignment menu.
3. After the screen displays the screen of **<<Alignment Tape Data Entry>>**, first input the Serial Number follow the printed number on the tape label. And input the number **"0"** or **"1"** for selected the PAL/NTSC. And after that enter the tape type, input **"0"** for DVCPRO, input **"1"** for DV or input **"2"** for HDLP.
4. After selecting the tape type, the frame for inputting the DATA and CHECK SUM appears on the screen. Input the numerical value in numerical order on the data sheet, which is enclosed with alignment tape. If the wrong number is inputted, the error message on the screen, then confirm that data on the sheet.
5. After the data entry, the screen returns to **"LISTA MAIN"** menu. Confirm the serial number of the alignment tape.

<< Alignment Tape Data Entry >> **Serial No. Lrc-20 (NTSC) 10μm**

[1]	- 0.1
[2]	0.1
[3]	0.0
[4]	0.2
[5]	0.6
[6]	0.5
[7]	0.7
[8]	0.9
[9]	1.0
[10]	0.8

[11]	0.7
[12]	1.0
[13]	0.7
[14]	0.5
[15]	0.2
[16]	- 0.5
[17]	- 0.3
[18]	- 0.3
[19]	- 0.1
[20]	- 0.6

[21]	- 0.4
[22]	- 0.2
[23]	- 0.7
[24]	- 0.6
[25]	- 0.7
[26]	- 0.3
[27]	- 0.4
[28]	- 0.4
[29]	- 0.6
[30]	- 0.3

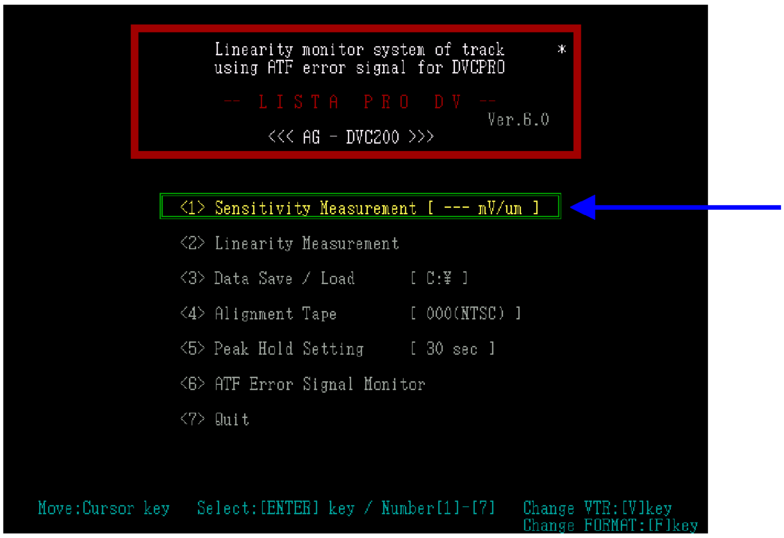
[31]	- 0.4
[32]	- 0.6
[33]	- 0.3
[34]	- 0.2
[35]	- 0.1
[36]	- 0.3
[37]	- 0.1

[CS]	- 0.6

NOTE: This is sample only, you must enter information from your alignment tape. Each tape is different.

1-8. LISTA Sensitivity Detection

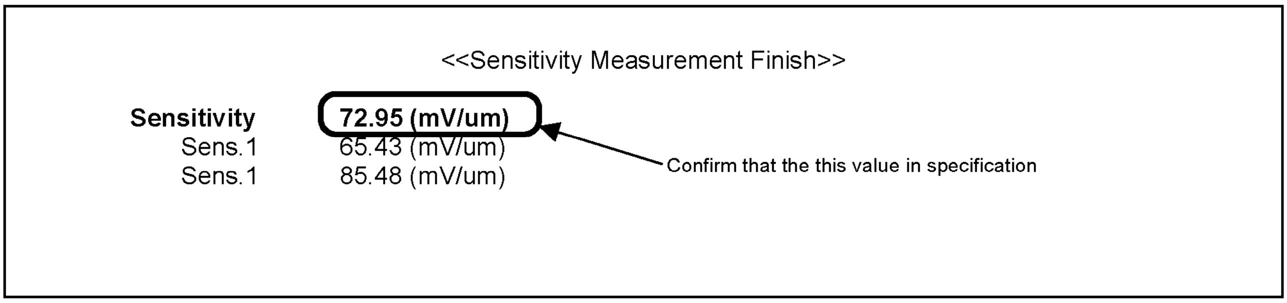
TP	**TP41** : ATF ERR, **TP8** : HID , **GND** : TP21 or 22
VTR MODE	PLAY
ADJ. MODE	Refer to below explanation
TAPE	VFM3000LS (DV LISTA)
SPEC.	70 mV / µm to 170 mV / µm



```
Linearity monitor system of track        *
using ATF error signal for DVCPRO

   -- L I S T A   P R O   D V --
                                 Ver.6.0
       <<< AG - DVC200 >>>

<1> Sensitivity Measurement [ --- mV/um ]

<2> Linearity Measurement

<3> Data Save / Load      [ C:¥ ]

<4> Alignment Tape        [ 000(NTSC) ]

<5> Peak Hold Setting     [ 30 sec ]

<6> ATF Error Signal Monitor

<7> Quit

Move:Cursor key   Select:[ENTER] key / Number[1]-[7]   Change VTR:[V]key
                                                        Change FORMAT:[F]key
```

Select at Sensitivity Detection.

1. Set the camera recorder to TAPE-VCR mode.
2. Insert the DV Alignment Tape (VFM3000LS) to the camera recorder.
3. Press the button in order of **"COUNTER-RESET button"** → **"STOP button"** → **"MODE CHK button"** → **"MENU button"**.
4. Select the item **"ADJUST MENU"** and press the SET(STILL) button to open the **"ADJUST MENU"**.
5. Select the item **"ATF GAIN"** and press the SET(STILL) button.
6. Select the item **"YES"** and press the SET(STILL) button, then message **"NOW SERVO ADJUST PUSH MENU TO RETURN"** appears on screen and press the PLAY button to playback the tape.
7. Select item **"<1> Sensitivity Measurement"** on the LISTA main menu, and press **"ENTER"**.
8. Then the tape is played back (tape speed : 101.2%) automatically, and message **"1.2% Speed…"** appears on the screen.
9. Press the ENTER key, and then start measurement of the sensitivity value.
10. Confirm that the sensitivity value is with in specification, after the message **"<<Sensitivity Measurement Finish>>"**.



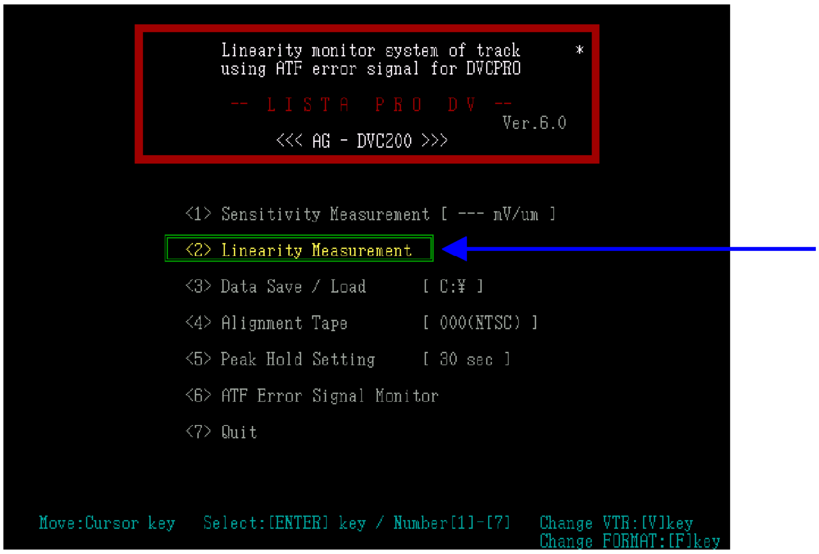
<<Sensitivity Measurement Finish>>

Sensitivity	**72.95 (mV/um)**
Sens.1	65.43 (mV/um)
Sens.1	85.48 (mV/um)

Confirm that the this value in specification

1-9. LISTA Linearity Adjustment

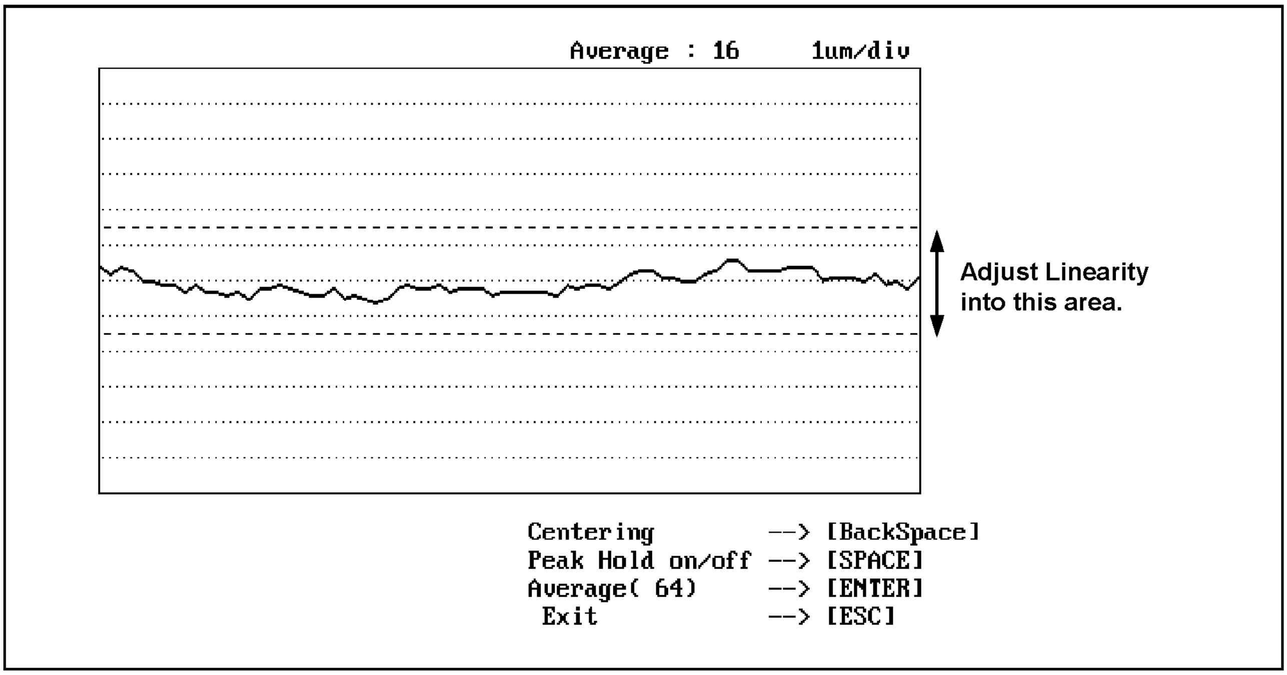
TP	**TP41** : ATF ERR, **TP8** : HID , **GND** : TP21 or 22
ADJ.	S1 and T2 Post Height
VTR MODE	PLAY
ADJ. MODE	Refer to below explanation
TAPE	VFM3000LS (DV LISTA)
TOOL	VFK1899 : Post Driver
SPEC.	Linearity : less than 3µm



```
Linearity monitor system of track        *
using ATF error signal for DVCPRO

-- L I S T A   P R O   D V --
                                  Ver.6.0
<<< AG - DVC200 >>>

<1> Sensitivity Measurement [ --- mV/um ]

<2> Linearity Measurement

<3> Data Save / Load      [ C:¥ ]

<4> Alignment Tape        [ 000(NTSC) ]

<5> Peak Hold Setting     [ 30 sec ]

<6> ATF Error Signal Monitor

<7> Quit

Move:Cursor key   Select:[ENTER] key / Number[1]-[7]   Change VTR:[V]key
                                                        Change FORMAT:[F]key
```

Select at Linearity Measurement.

1. Set the camera recorder to TAPE-VCR mode.
2. Insert the DV Alignment Tape (VFM3000LS) to the camera recorder.
3. Open the cassette cover follow the item **“1-3. Adjustment of S1 and T2 Post”** in this section.
4. Press the button in order of **“COUNTER-RESET button”** → **“STOP button”** → **“MODE CHK button”** → **“MENU button”**.
5. Select the item **“ADJUST MENU”** and press the SET(STILL) button to open the **“ADJUST MENU”**.
6. Select the item **“LINEARITY”** and press the SET(STILL) button.
7. Select the item **“YES ”** and press the SET(STILL) button, then message **“NOW SERVO ADJUST PUSH MENU TO RETURN”** appears on screen and press the PLAY button to playback the tape.
8. Select item **“<2> Linearity Measurement”** on the LISTA main menu, and press **“ENTER”**, then the Linearity Waveform appears.
9. When the waveform as shown in figure below is displayed on the screen, press the **“BS (Back Space)”** key for display the waveform positioned at the center of the scale on screen. Adjust S1 and T2 post height by using the post driver so that the linearity waveform is becomes flat as possible, and it should be within specification.
   (Adjust linearity waveform in the red dot line on the screen.)

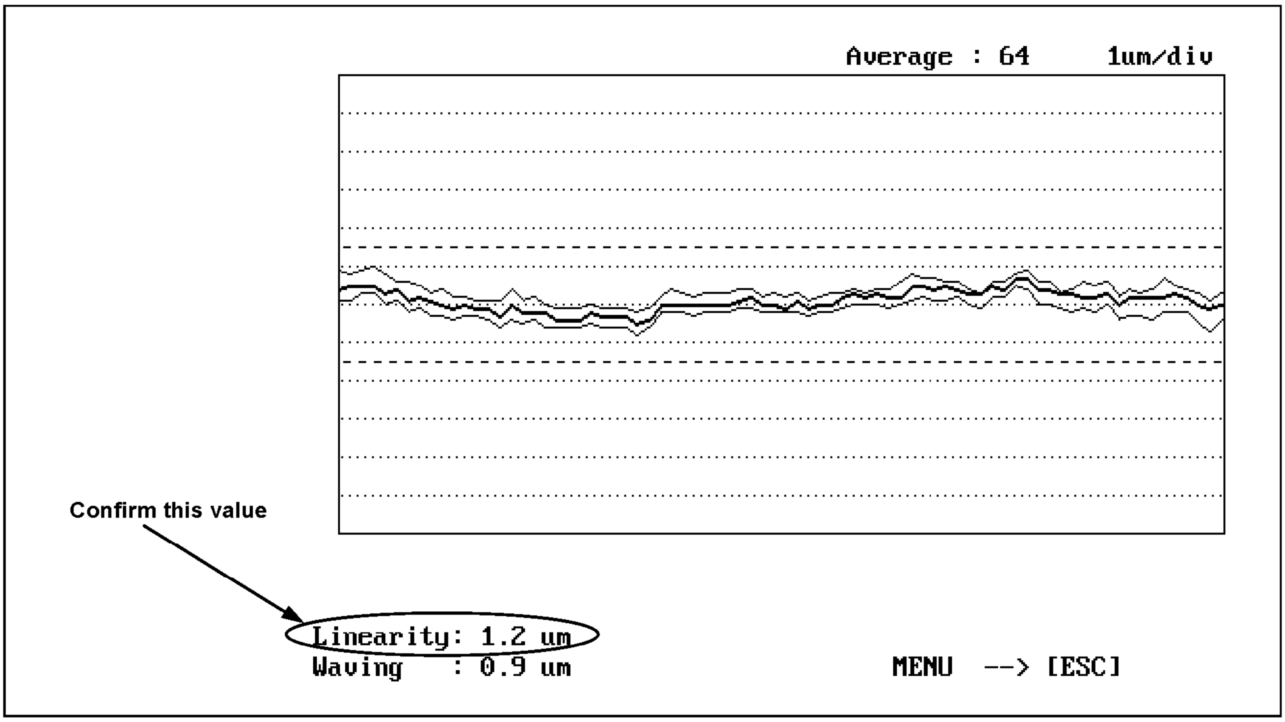


Average : 16 1um/div

Adjust Linearity into this area.

POINT :
The left side of the waveform (entrance side) is adjusted by the height of S1 post and the right side of the waveform (exit side) is adjusted by the height of T2 post.
When the post driver is removed from upper part of post, linearity waveform is changed.
After finishing this adjustment, eject the tape and insert the tape again to confirm that the shape of the linearity waveform has not changed.

10. Press **“SPACE”** key to perform the Peak Hold in 30 seconds when linearity is displayed.
11. After finishing the Peak Hold, press **“SHIFT”** and “ **}** ” key simultaneously on the Key Board, then the numerical values of **“Linearity”** and **“Waving”** is displayed on left lower portion of screen. And confirm the numerical value of **“Linearity”** is in the specification. If the **“Linearity”** is out of specification, adjust height of S1 and T2 post.
12. After this measurement is finished, press the ESC key to return to the main menu.



Average : 64 1um/div

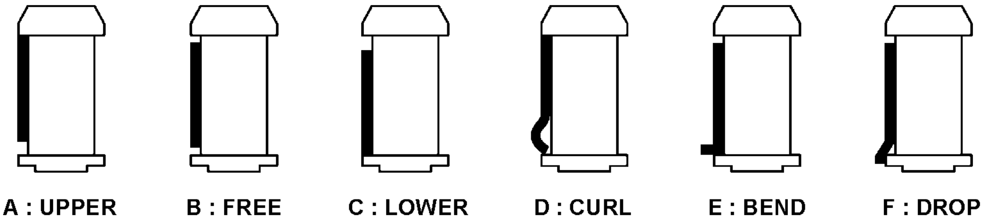
Confirm this value

Linearity: 1.2 um
Waving : 0.9 um

1-10. Tape Pass Confirmation

1. Set the camera recorder to TAPE-VCR mode.
2. Insert the Blank tape to the camera recorder.
3. Open the cassette cover follow the item **“1-3. Adjustment of S1 and T2 Post”** in this section.
4. Play back the Blank tape and confirm that the tape passes without curling at the upper and lower guides of the following posts in the Play modes as shown in below table.

Post Name	Tape limit (refer to figure)					
	A	B	C	D	E	F
S1 post	NG	NG	OK	NG	NG	NG
S2 post	OK	OK	NG	NG	NG	NG
T2 post	OK	NG	NG	NG	NG	NG
T3 post	NG	OK	OK	NG	NG	NG



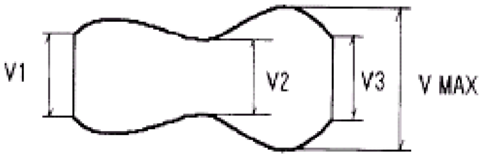
5. Confirm that the tape damage does not occur on tape at S1, T1 and T2 post by loading and unloading.
6. If curl and tape damage occurred at S1 and T2 post, adjust height of post by post driver.

1-11. Self-REC/PLAY Envelope Waveform Confirmation

1. Set the camera recorder to TAPE-VCR mode.
2. Connect the Measuring Board (refer to item ”1-4. Connection of Measuring Board”).
3. Connect the oscilloscope to the Measuring Points [TP7: ENV] and [TP8: HID] as a trigger on the Measuring Board.

NOTE: Please use [TP22: GND] as GND of probe, when you connect [TP7: ENV].

4. Record a color bar signal.
5. Play back the just recorded portion and confirm that the envelope is within the following specifications.



V1/V max. 0.9
V2/V max. 0.9
V3/V max. 0.9

Make as flat as possible

6. Confirm that the envelope is within the following specification, when the mode is changed as follows.
   STOP→PLAY: Envelope appears completely within 2 seconds and stable.
   REV→PLAY : Envelope appears completely within 2 seconds.
7. Confirm that the shape of envelope is diamond style.
8. If it is out of the specification, adjust height of the S1 and T2 Post. Then open the cassette cover follow the item **“1-3. Adjustment of S1 and T2 Post”** in this section.

2. Mechanical parts replacement procedure

2-1. Cleaning Roller Unit

(Removal)

1. Remove the Mechanism Unit.
2. Unscrew the 2 screws (A) and (B), then remove the Cleaning Roller Unit.

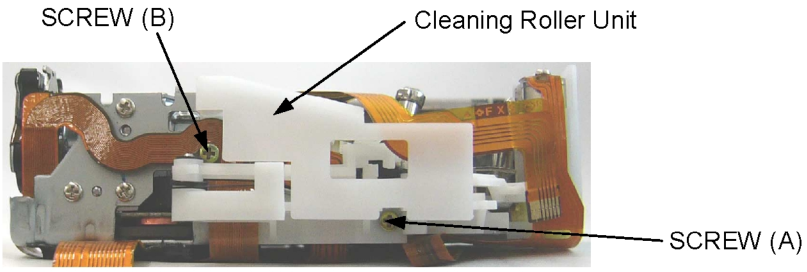


Figure A

(Installation)

1. Hook the portion (B) of Cleaning Roller Unit to portion (A) of Mechanism Chassis and install the Cleaning Roller Unit. Then be careful the Release Arm does not run onto the part at end of sub chassis (C) as shown in figure B.

NOTE: Supply the voltage to loading motor and the Cleaning Roller Unit is installed in the mechanical position as shown in figure (B) to simple installation (No problem it installation in loading complete position).

2. Tighten the Screw (A) and (B) as shown in figure A. When tighten the screw (B), flexible cable also tighten up together as shown in figure A.

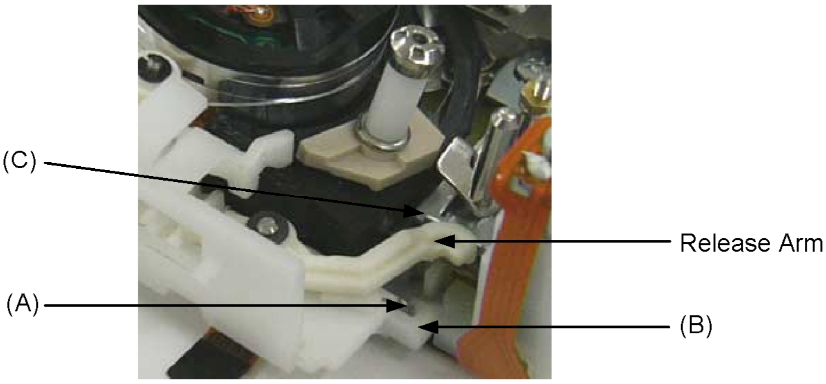


Figure B

(Confirmation of Operation)

1. To confirm that the Cleaning Roller operates normally on the Mechanism Unit, supply the voltage to loading motor and confirm that the Cleaning Roller touches the Cylinder in loading operation.

UNLOADING............. A: +4.5V B: GND
LOADING.................. A: GND B: +4.5V

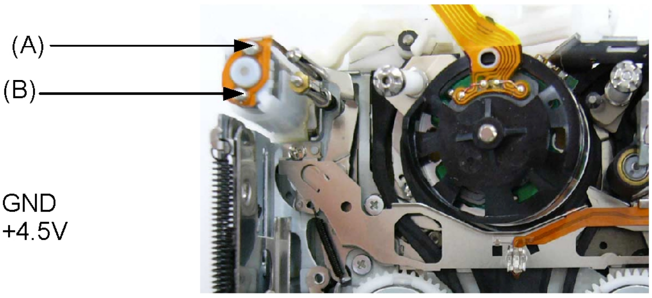


Figure C

SECTION 4

ELECTRICAL ADJUSTMENT

MODEL: AG-HVX200P/AN/E/MC/HVX202EN

CONTENTS

1. Adjustment after replacement of major parts ELE-1
    - 1-1. CAMERA Adjustment ELE-1
    - 1-2. VTR Adjustment ELE-1
2. Required tools and equipment for each adjustment items ELE-2
3. Adjustment system ELE-3
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    - 3-2. Connection ELE-3
4. Adjustment procedure (CAMERA section) ELE-6
    - 4-1. Setup of PC EVR software for camera adjustment ELE-6
    - 4-2. Zoom SW center value adjustment ELE-7
    - 4-3. Hall Amp adjustment (Auto) ELE-9
    - 4-4. Iris PWM adjustment (Auto) ELE-10
    - 4-5. OISu adjustment (Auto) ELE-11
    - 4-6. Zoom tracking adjustment (Auto) ELE-12
    - 4-7. CCD white scratch damage revision adjustment (Auto) ELE-13
    - 4-8. White balance adjustment ELE-14
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        - 4-8-2. White balance adjustment (3100K) (Auto) ELE-16
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        - 4-8-4. White balance adjustment (4500K) (Auto) ELE-19
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1. Adjustment after replacement of major parts

If one of the Major part listed requires replacement, the table below indicates what electrical adjustments are required.

1-1. CAMERA Adjustment

ADJUSTMENT ITEM	CAMERA Board	CAMERA LENS Ass`y			ZOOM SW Ass`y	SIDE JACK1 Board
		LENS Ass`y	PRISM Ass`y	ZOOM MOTOR Ass`y		
Zoom SW Center Value	X				X	
Hall Amp (Auto)	X	X				
Iris PWM (Auto)	X	X				
OIS (Auto)	X	X				
Zoom Tracking (Auto)	X	X		X		
CCD White scratch damage revision	X		X			
Preparation of White Balance	X		X			
White Balance (3100K) (Auto)	X		X			
White Balance (5100K) (Auto)	X		X			
White Balance (4500K) (Auto)	X		X			
White Balance (3600K) (Auto) *NOTE	X		X			
White Shading (Auto)	X		X			
Sync Level	X					●
Y Level	X					●
Pb Level	X					●
Pr Level	X					●
Luminance Level	X					●
Chroma Level	X					●
SETUP *NOTE	X					

X: Adjustment Required
● : Confirmation Required

*NOTE: White Balance (3600K) and SETUP adjustment is required only for NTSC model.

1-2. VTR Adjustment

ADJUSTMENT ITEM	VTR Board	MECHANIZM Ass`y	MECHA IF Board
Sensitivity adj of Tape sensor	X	X	X
PG Shifter	X	X	X

X: Adjustment Required

NOTE:
When the adjustment data backed up is written in a new board when VTR board is exchanged, the adjustment is unnecessary.

2. Required tools and equipment for each adj. items.

Below indicated tools are required to perform each adjustment in addition to tools in introduced in item 3-1.

Adjustment	Item	Required Tool	Remark
CAMERA	Zoom SW Center Value	Unnecessary	
	Hall Amp (Auto)	Unnecessary	
	Iris PWM (Auto)	Unnecessary	
	OIS (Auto)	Unnecessary	
	Zoom Tracking (Auto)	82mm Attachment Ring (VFK1987)	
		43mm Attachment Ring (VFK1164TAR43)	
		Collimator Set (VFK1164TCM01)	
		Halogen lamp	
	CCD White scratch damage revision (Auto)	Unnecessary	
	Preparation of White Balance	Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Balance (3100K) (Auto)	Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Balance (5100K) (Auto)	CC filter (LB120) (VFK1347)	
		CC filter (LBA2) (VFK1884)	
		CC filter (LBB6) (VFK1888)	
		82mm Attachment Ring (VFK1987)	
		CC Filter Holder (VFK1345)	
		Step-down Ring (62mm-52mm) (VFK1346)	
		Step-up Ring (43mm-49mm) (VFK1659)	
		Step-up Ring (49mm-62mm) (VFK1660)	
		Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Balance (4500K) (Auto)	CC filter (LB120) (VFK1347)	NTSC model only
		CC filter (LB40) (VFK1341)	PAL model only
		CC filter (LBB2) (VFK1885)	PAL model only
		82mm Attachment Ring (VFK1987)	
		CC Filter Holder (VFK1345)	
		Step-down Ring (62mm-52mm) (VFK1346)	
		Step-up Ring (43mm-49mm) (VFK1659)	
		Step-up Ring (49mm-62mm) (VFK1660)	
		Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Balance (3600K) (Auto) (NTSC model only required)	CC filter (LB40) (VFK1341)	NTSC model only
		CC filter (LBB2) (VFK1885)	NTSC model only
		82mm Attachment Ring (VFK1987)	
		CC Filter Holder (VFK1345)	
		Step-down Ring (62mm-52mm) (VFK1346)	
		Step-up Ring (43mm-49mm) (VFK1659)	
		Step-up Ring (49mm-62mm) (VFK1660)	
		Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Shading (Auto)	Halogen lamp	
	Sync Level	Waveform Monitor	
	Y Level	Waveform Monitor	
	Pb Level	Waveform Monitor	
	Pr Level	Waveform Monitor	
	Luminance Level	Waveform Monitor	
	Chroma Level	Waveform Monitor	
VTR	Sensitivity adj of Tape sensor (Auto)	Unnecessary	
	PG Shifter (Auto)	Oscilloscope	
		DV Color bar Alignment Tape (VFM3010EDS)	NTSC model only
		DV Color bar Alignment Tape (VFM3110EDS)	PAL model only

3. Adjustment system

When performing the electrical adjustment, the PC EVR software is used.

3-1. Required tools and equipment for PC EVR software

When the PC EVR software is used, the following tools are required.

NAME	Part Number	Pcs.	Remark
PC EVR software	VVS0030	1	Download from the Global Service WEB site.
PC EVR software	VVS0032	1	Download from the Global Service WEB site. NOTE: Only VTR adjustment is used.
Measuring board	VFK1988	1	
Extension cable	VFK1989	1	
DC cable	K2GJ2DC00002 or VJA1128	2	For AG-HVX200/202 and Measuring board
AC Adapter	---	2	For AG-HVX200/202 and Measuring board
9pin RS232C cross cable	---	1	
Personal Computer	---	1	***NOTE:**

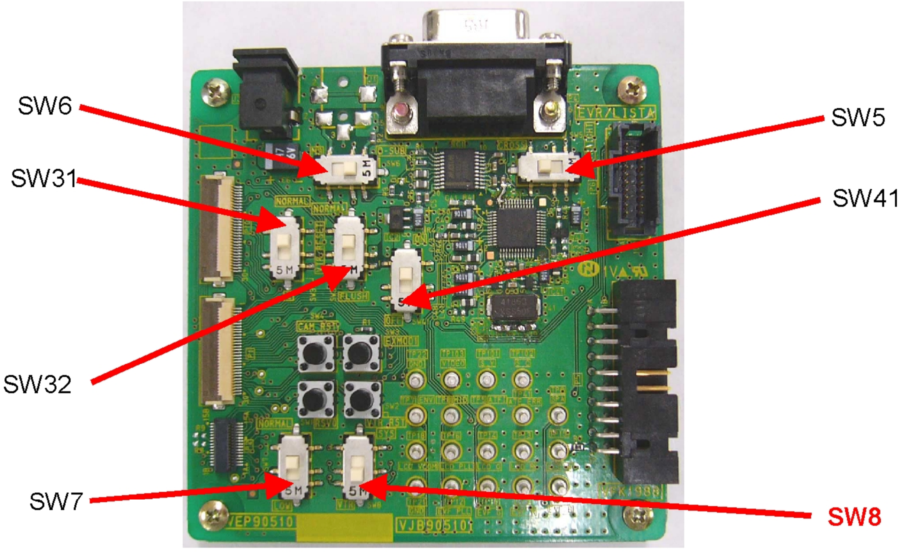
***OS: WINDOWS XP SP2**

3-2. Connection

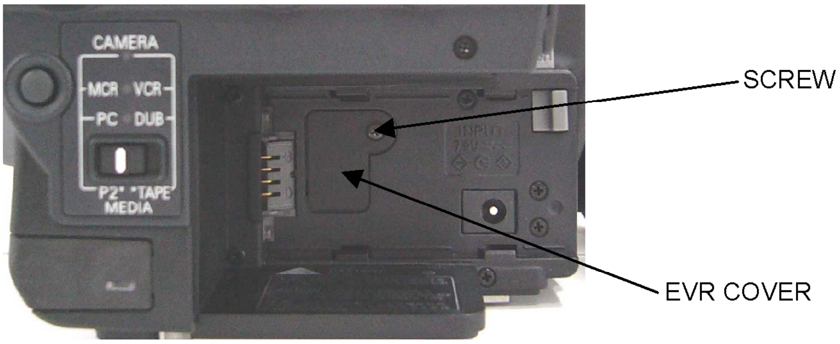
1. Unless otherwise specified, set the switches on the Measuring Board as shown in the table below.

NAME	SETTING POSITION
SW5	CROSS
SW6	D-SUB
SW7	NORMAL
SW8	***NOTE**
SW31	NORMAL
SW32	NORMAL
SW41	ON

***NOTE:** SW8 is VTR/SYS selection switch. When the camera part is adjusted, SW8 sets to the SYS side. When the VTR part is adjusted, SW8 sets to VTR side.

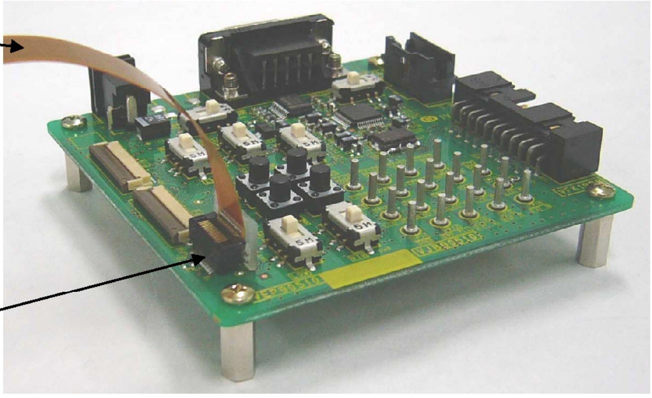


2. Loosen the screw and remove the EVR cover.



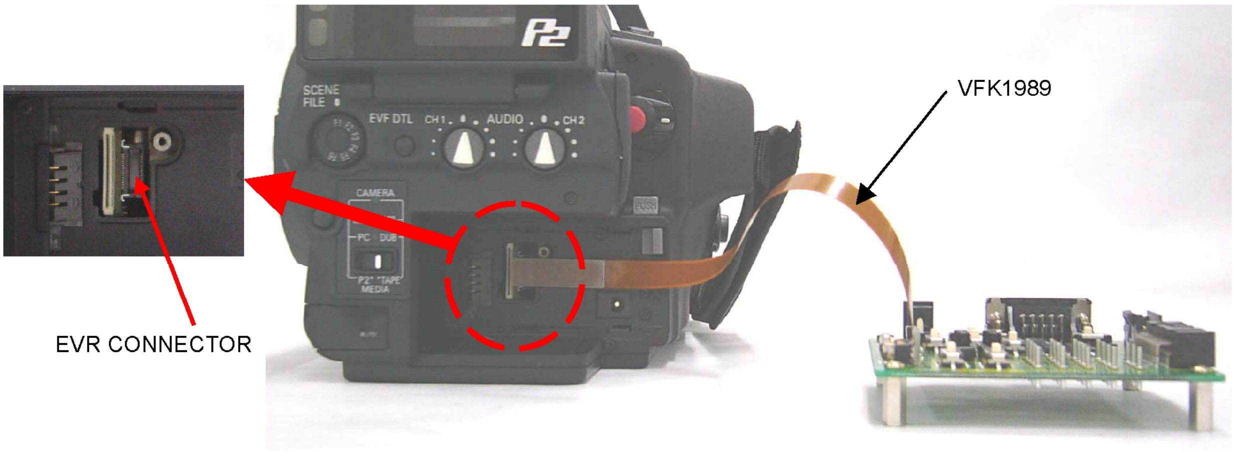
3. Connect the Extension Cable (VFK1989) to connector P2 on Measuring Board (VFK1988)

Connect VFK1989 with connector P2 as shown in picture.
The unit will not work if the connector is attached backwards.

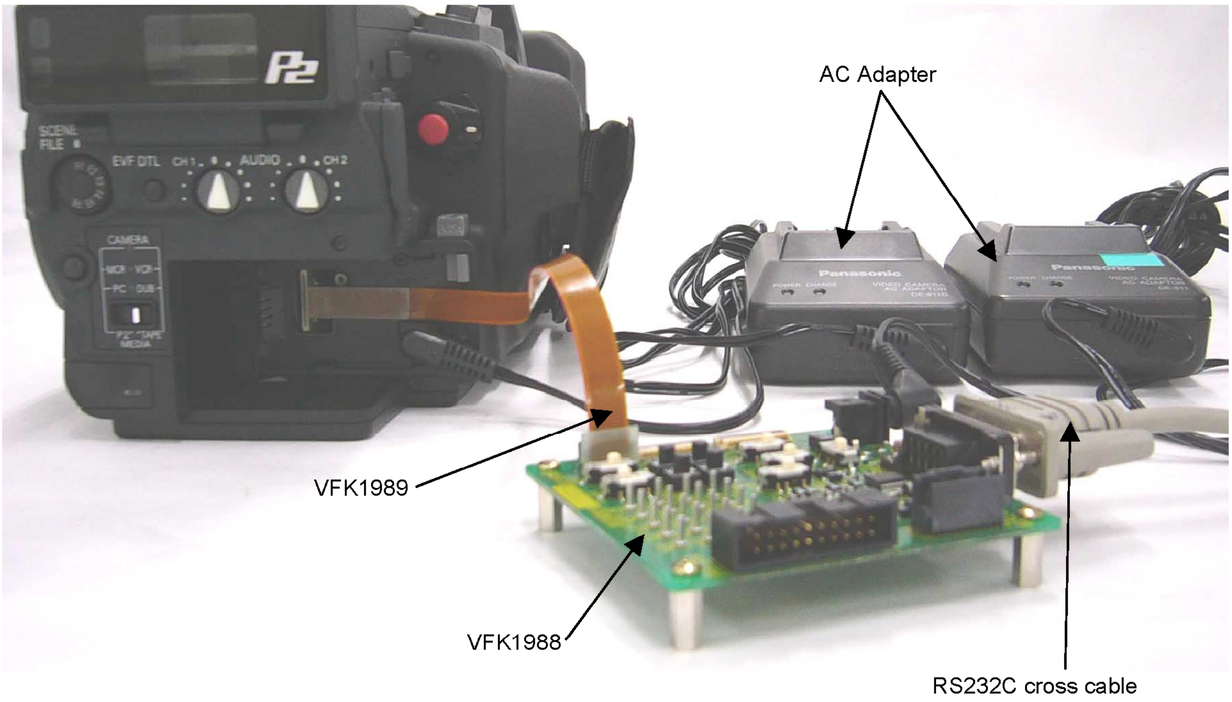


4. Connect the Extension Cable (VFK1989) to EVR connector in camera recorder. Then make sure that the direction of the VFK1989 is correct as shown in Figure.

When the VFK1989 is connected to EVR connector, be careful of the direction of connector on VFK1989. Please follow as shown in the figure.



5. Supply DC6V-9V to the Measuring Board (VFK1988). Please use the DC cable and AC Adapter to supply DC voltage to Measuring Board.
6. Connect a 9 pin RS-232C cross cable between the Measuring Board and RS-232C connector on Personal Computer as shown in Figure.


AC Adapter
VFK1989
VFK1988
RS232C cross cable

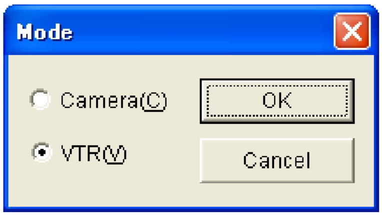
This cable connect to serial port of PC.

4. Adjustment procedure (CAMERA section)

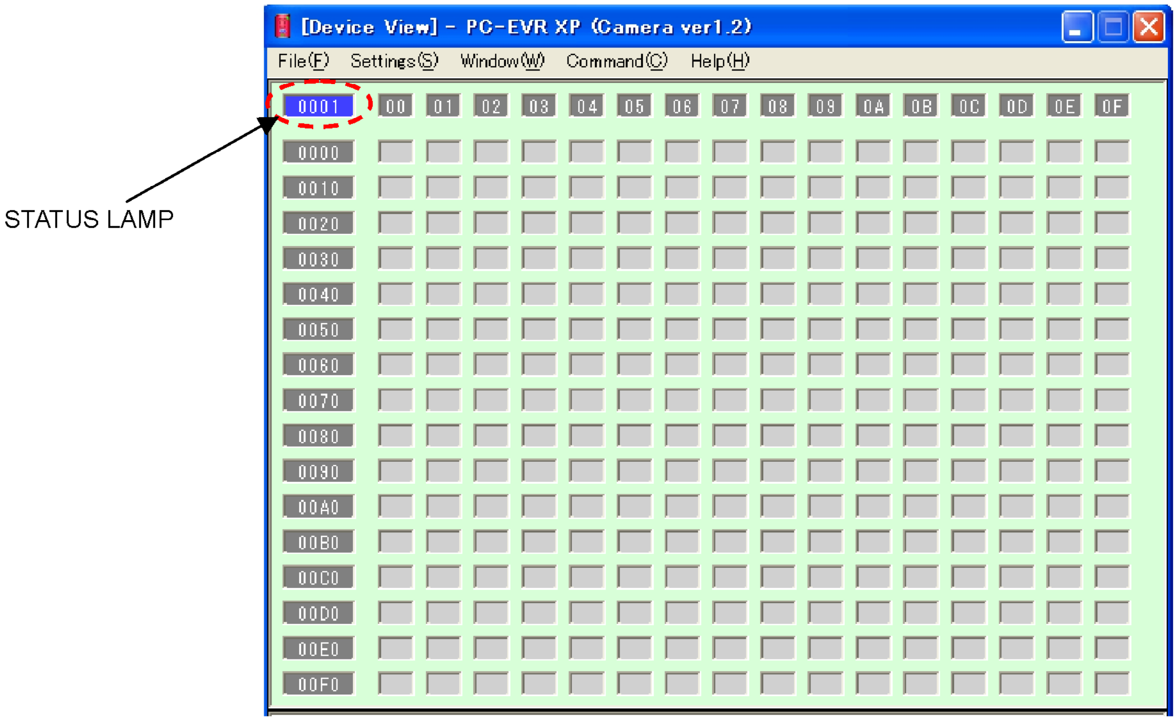
Set the AUTO/MANUAL switch to MANUAL position.
Confirm that the **SW8** on measuring board sets to **“SYS”** side.

4-1. Setup of PC EVR software for camera adjustment

1. Copy all files of the PC EVR software **(VVS0030)** for AG-HVX200/202 series to the PC.
2. Set the **MEDIA** switch to **“P2”** position.
3. Supply power to the Camera-Recorder and turn power ON.
4. Start up the PC EVR software by double-clicking **“VVS0030.exe”**. When communication between the PC and the Camera-Recorder has been succeeded, the following screen will appear.


Mode
○ Camera(C)
● VTR(V)
OK
Cancel

5. Select **“Camera(C)”** mode on screen and click **“OK”** button. The following screen will appear and blue is displayed to the status lamp.

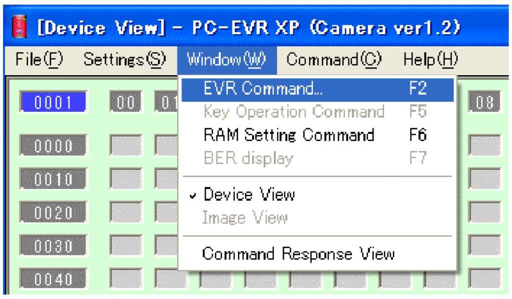

[Device View] - PC-EVR XP (Camera ver1.2)
File(F)
Settings(S)
Window(W)
Command(C)
Help(H)
0001
00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
0000
0010
0020
0030
0040
0050
0060
0070
0080
0090
00A0
00B0
00C0
00D0
00E0
00F0
STATUS LAMP

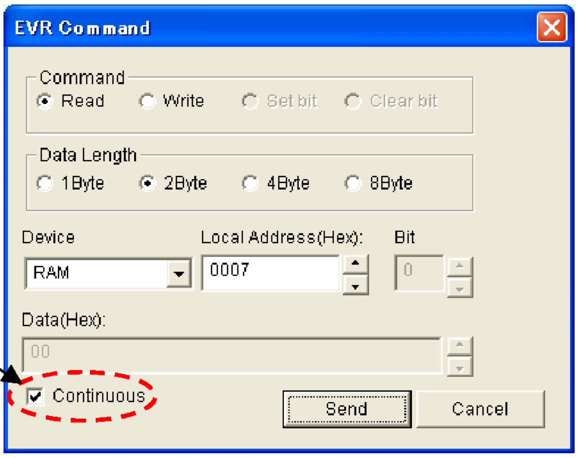
6. The communication status between the PC and the Camera-Recorder can be confirmed with the status lamp as following color.

Not Connected	:	black
Connected	:	blue
Reading	:	green
Writing	:	red

4-2. Zoom SW center value adjustment

1. Select **"EVR Command"** in **"File(F)"** menu and set each item on EVR Command screen as follows.


[Device View] – PC-EVR XP (Camera ver1.2)
File(F) Settings(S) Window(W) Command(C) Help(H)
EVR Command... F2
Key Operation Command F5
RAM Setting Command F6
BER display F7
Device View
Image View
Command Response View
0001
0000
0010
0020
0030
0040
00
01
08


EVR Command
Command
Read
Write
Set bit
Clear bit
Data Length
1Byte
2Byte
4Byte
8Byte
Device
Local Address(Hex):
Bit
Data(Hex):
Send
Cancel

Command: ● Read ○ Write ○ Set bit ○ Clear bit

Data Length: ○ 1Byte ● 2Byte ○ 4Byte ○ 8Byte

Device: RAM

Local Address(Hex): 0007

Bit: 0

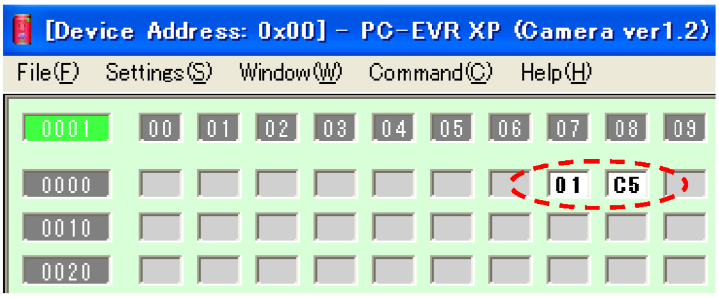
Data(Hex): 00

☑ Continuous

Check in box

Command	Read
Data Length	2Byte
Device	RAM
Local Address(Hex)	0007

2. Click **"Send"** button, the data of 0007 and 0008 address is displayed, and confirm that the status lamp is green.


[Device Address: 0x00] – PC-EVR XP (Camera ver1.2)
File(F) Settings(S) Window(W) Command(C) Help(H)
0001
00
01
02
03
04
05
06
07
08
09
0000
0010
0020
01
C5

Readout the data of zoom position at T side

3. Press T side button of zoom SW on the Grip cover to T position fully and release the finger from the button slowly.
4. Take notes of numeral value in **"Data"** box.
5. Repeat three times from the above steps 3 to 4.
6. Select the minimum value among three measurement value.

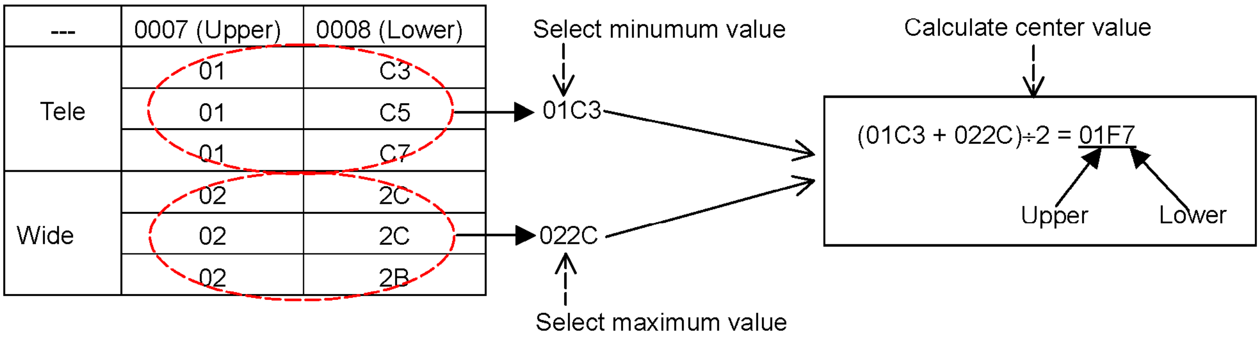
Readout the data of zoom position at W side

7. Press S side button of zoom SW on the Grip cover to W position fully and release the finger from the button slowly.
8. Take notes of numeral value in **"Data"** box.
9. Repeat three times from the above steps 7 to 8.
10. Select the maximum value among three measurement value.

Calculation of zoom SW center value

11. Calculate the center value with the minimum value of T side and the maximum value of W side as follows.

<For example>



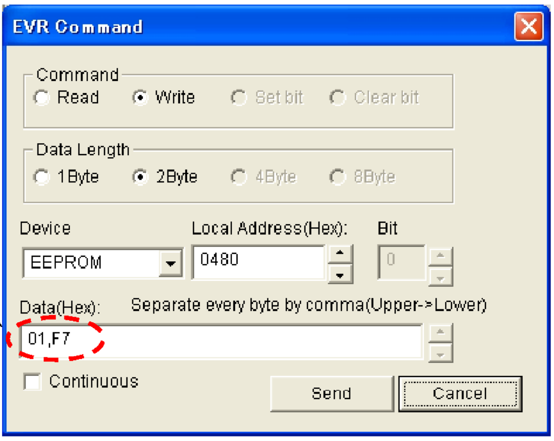
---	0007 (Upper)	0008 (Lower)
Tele	01	C3
	01	C5
	01	C7
Wide	02	2C
	02	2C
	02	2B

Select minumum value
01C3
022C
Select maximum value
Calculate center value
(01C3 + 022C)÷2 = 01F7
Upper
Lower

Writing the data of zoom SW center value

12. Set each item on EVR Command screen as follows.

ex.)
When inputting as 01,F7



EVR Command

Command: ○ Read ● Write ○ Set bit ○ Clear bit

Data Length: ○ 1Byte ● 2Byte ○ 4Byte ○ 8Byte

Device: EEPROM

Local Address(Hex): 0480

Bit: 0

Data(Hex): Separate every byte by comma(Upper->Lower)

01,F7

☐ Continuous

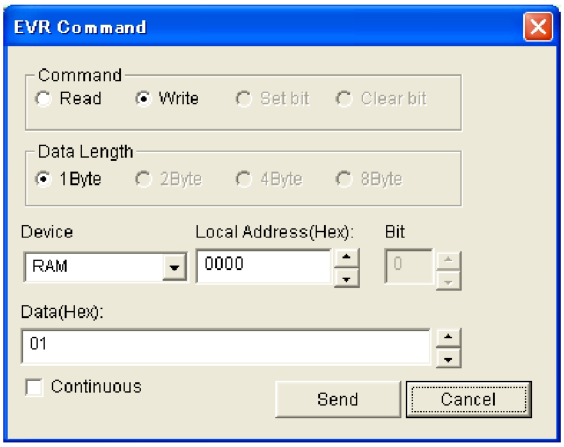
Send
Cancel

Command	Write
Data Length	2Byte
Device	EEPROM
Local Address(Hex)	0480

13. Input the zoom SW center value, which is calculated at step 11, in **"Data(Hex)"** box and click **"Send"** button.
Example: Input **"01,F7"** when the zoom SW center value is **"01F7"**.
Operate the zoom SW on the Grip cover and confirm that zoom operation works smoothly.

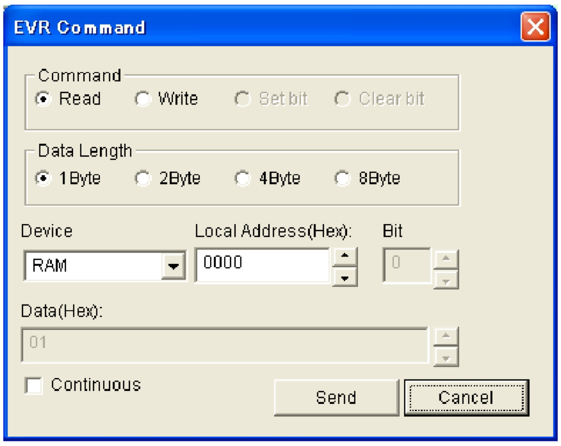
4-3. Hall Amp adjustment (Auto)

1. Select **“EVR Command”** in **“File(F)”** menu and set each item on EVR Command screen as follows.


EVR Command
Command
○ Read
● Write
○ Set bit
○ Clear bit
Data Length
● 1Byte
○ 2Byte
○ 4Byte
○ 8Byte
Device
RAM
Local Address(Hex):
0000
Bit
0
Data(Hex):
01
☐ Continuous
Send
Cancel

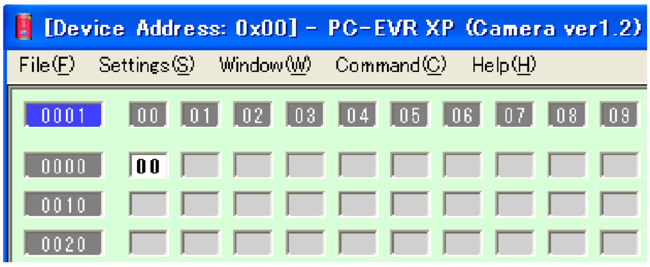
Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000
Data(Hex)	01

2. Click **“Send”** button. Automatic adjustment starts.
3. After the status lamp display is return to blue, set each item on EVR Command screen as follows.


EVR Command
Command
● Read
○ Write
○ Set bit
○ Clear bit
Data Length
● 1Byte
○ 2Byte
○ 4Byte
○ 8Byte
Device
RAM
Local Address(Hex):
0000
Bit
0
Data(Hex):
01
☐ Continuous
Send
Cancel

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000

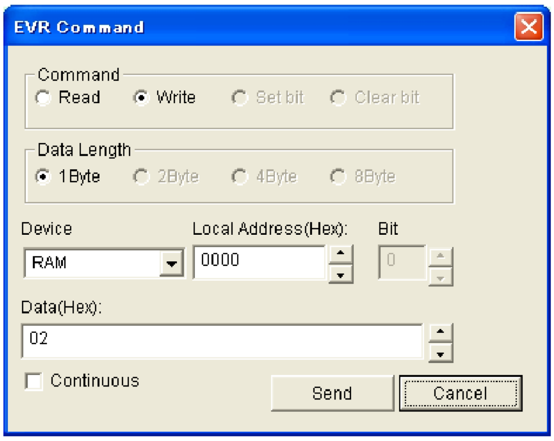
4. Click **“Send”** button and confirm that the data of 0000 address is displayed as **“00”**.


[Device Address: 0x00] - PC-EVR XP (Camera ver1.2)
File(F)
Settings(S)
Window(W)
Command(C)
Help(H)

0001	00	01	02	03	04	05	06	07	08	09
0000	00									
0010										
0020										

4-4. Iris PWM adjustment (Auto)

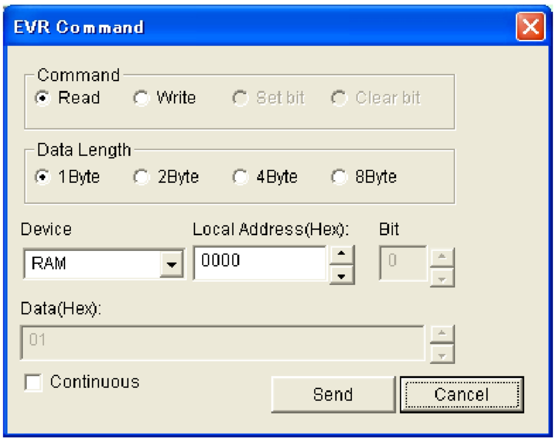
1. Select **“EVR Command”** in **“File(F)”** menu and set each item on EVR Command screen as follows.



Command: ○ Read ● Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0000
Bit: 0
Data(Hex): 02
☐ Continuous

Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000
Data(Hex)	02

2. Click **“Send”** button. Automatic adjustment starts.
3. After the status lamp display is return to blue, set each item on EVR Command screen as follows.



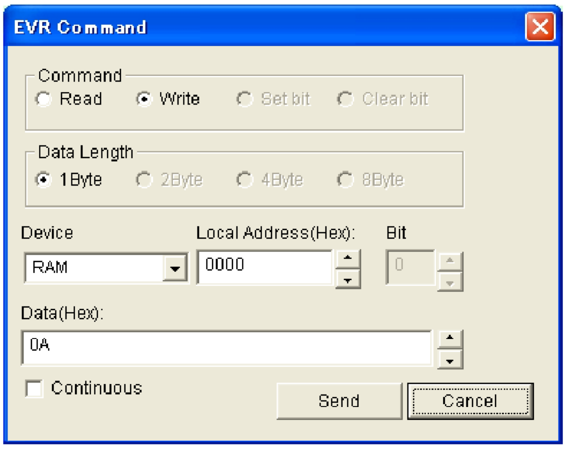
Command: ● Read ○ Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0000
Bit: 0
Data(Hex): 01
☐ Continuous

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000

4. Click **“Send”** button and confirm that the data of 0000 address is displayed as **“00”**.

4-5. OISu adjustment (Auto)

1. Select **“EVR Command”** in **“File(F)”** menu and set each item on EVR Command screen as follows.



EVR Command

Command
○ Read ● Write ○ Set bit ○ Clear bit

Data Length
● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte

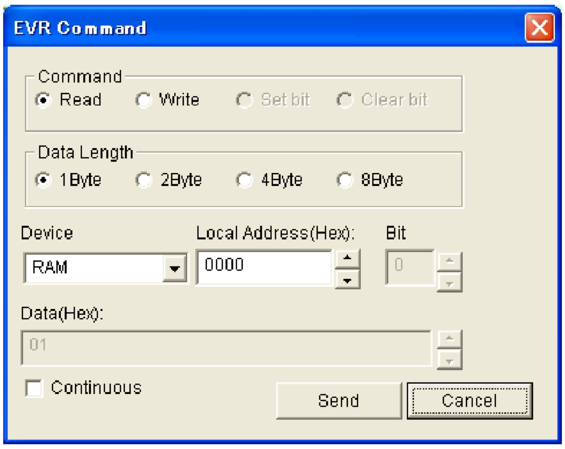
Device: RAM
Local Address(Hex): 0000
Bit: 0

Data(Hex): 0A

☐ Continuous

Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000
Data(Hex)	0A

2. Click **“Send”** button. Automatic adjustment starts.
3. After the status lamp display is return to blue, set each item on EVR Command screen as follows.



EVR Command

Command
● Read ○ Write ○ Set bit ○ Clear bit

Data Length
● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte

Device: RAM
Local Address(Hex): 0000
Bit: 0

Data(Hex): 01

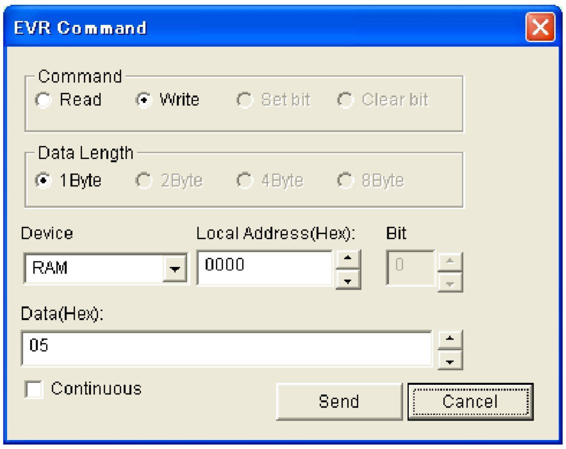
☐ Continuous

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000

4. Click **“Send”** button and confirm that the data of 0000 address is displayed as **“00”**.

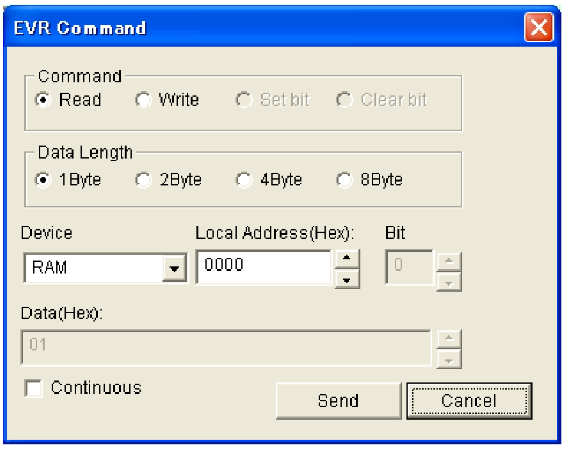
4-6. Zoom tracking adjustment (Auto)

1. Set the 82mm Attachment Ring (VFK1987) to the front of Lens.
2. Set the 43mm attachment ring (VFK1164TAR43) to the Collimator (VFK1164TCM01).
3. Set the Collimator (VFK1164TCM01) with the 43mm attachment ring (VFK1164TAR43) to 82mm Attachment Ring (VFK1987).
4. Adjust the position of lens unit and collimator so that the center of chart is always located at the center of monitor when moved between T and W.
5. Set the Iris to Auto.
6. Set the ZOOM switch toSERVO.
7. Aim the Camera-Recorder at white paper under the Halogen lamp condition (3100K, 2000Lux).
8. Select **"EVR Command"** in **"File(F)"** menu and set each item on EVR Command screen as follows.


EVR Command
Command: ○ Read ● Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0000
Bit: 0
Data(Hex): 05
☐ Continuous

Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000
Data(Hex)	05

9. Click **"Send"** button. Automatic adjustment starts.
10. After the status lamp display is return to blue, set each item on EVR Command screen as follows.

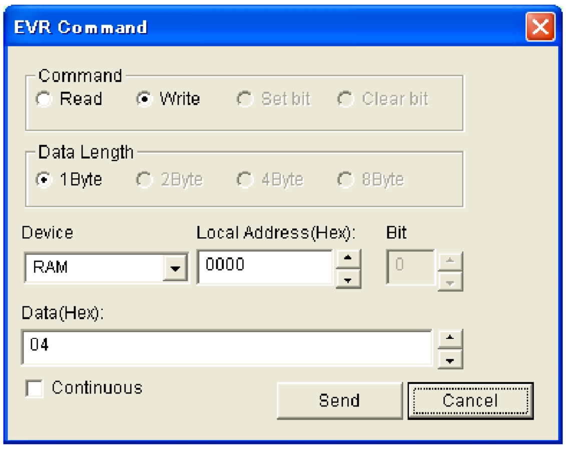

EVR Command
Command: ● Read ○ Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0000
Bit: 0
Data(Hex): 01
☐ Continuous

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000

11. Click **"Send"** button and confirm that the data of 0000 address is displayed as **"00"**.

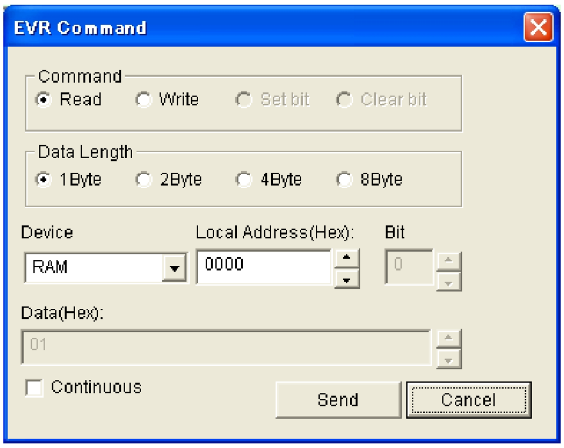
4-7. CCD white scratch damage revision adjustment (Auto)

1. Select **“EVR Command”** in **“File(F)”** menu and set each item on EVR Command screen as follows.


EVR Command
Command
○ Read
● Write
○ Set bit
○ Clear bit
Data Length
● 1Byte
○ 2Byte
○ 4Byte
○ 8Byte
Device
RAM
Local Address(Hex):
0000
Bit
0
Data(Hex):
04
☐ Continuous
Send
Cancel

Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000
Data(Hex)	04

2. Click **“Send”** button. Automatic adjustment starts.
3. After the status lamp display is return to blue, set each item on EVR Command screen as follows.


EVR Command
Command
● Read
○ Write
○ Set bit
○ Clear bit
Data Length
● 1Byte
○ 2Byte
○ 4Byte
○ 8Byte
Device
RAM
Local Address(Hex):
0000
Bit
0
Data(Hex):
01
☐ Continuous
Send
Cancel

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000

4. Click **“Send”** button and confirm that the data of 0000 address is displayed as **“00”**.

4-8. White balance adjustment

Please adjust it according to the following flow chart when you adjust the white balance.

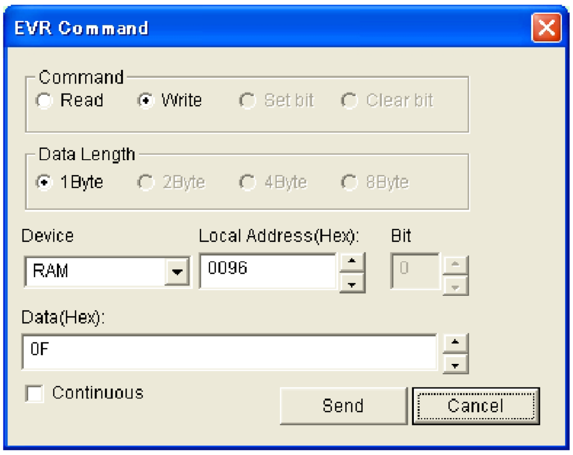
4-8-1. Preparation of White balance adjustment
⇩
4-8-2. White balance adjustment (3100K) (Auto)
⇩
4-8-3. White balance adjustment (5100K) (Auto)
⇩
4-8-4. White balance adjustment (4500K) (Auto)
⇩
4-8-5. White balance adjustment (3600K) (Auto) **NOTE: Required only for NTSC model**
⇩
4-8-6. End of White Balance adjustment processing

4-8-1. Preparation of White balance adjustment

1. Set the Iris to Auto.
2. Set the ND filter SW to OFF position.
3. Aim the Camera-Recorder at grayscale chart under the Halogen lamp condition (3100K, 2000Lux).
4. Set the WHITE BAL switch to PRST position.
5. Press the AWB button to set P3.2.
6. Execute ABB.

NOTE: Please change the ND filter position if necessary by the state of brightness.

7. Select **"EVR Command"** in **"File(F)"** menu and set each item on EVR Command screen as follows.

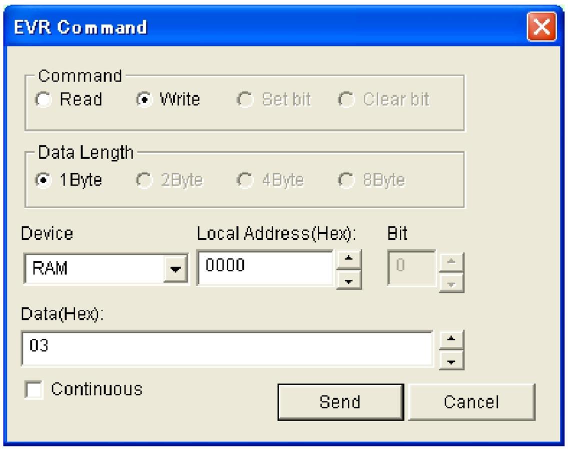


Command: ○ Read ● Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0096
Bit: 0
Data(Hex): 0F
☐ Continuous

Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0096
Data(Hex)	0F

8. Click **"Send"** button.

9. After the status lamp display is return to blue, change the local address to **"0000"** and change the data to **"03"**.


EVR Command

Command: ○ Read ● Write ○ Set bit ○ Clear bit

Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte

Device: RAM

Local Address(Hex): 0000

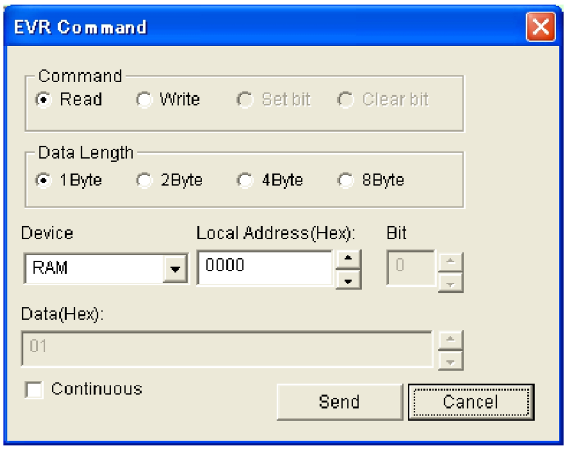
Bit: 0

Data(Hex): 03

☐ Continuous

Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000
Data(Hex)	03

10. Click **"Send"** button.
11. After the status lamp display is return to blue, set each item on EVR Command screen as follows.


EVR Command

Command: ● Read ○ Write ○ Set bit ○ Clear bit

Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte

Device: RAM

Local Address(Hex): 0000

Bit: 0

Data(Hex): 01

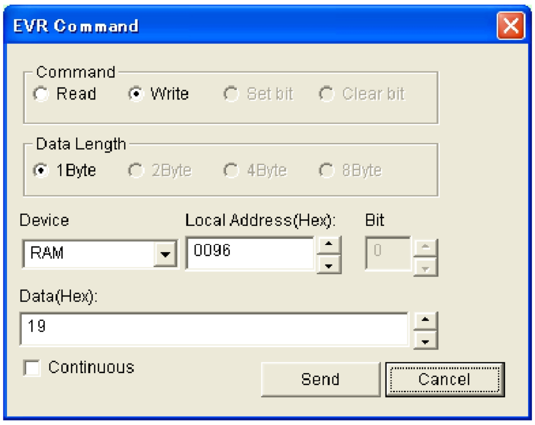
☐ Continuous

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000

12. Click **"Send"** button and confirm that the data of 0000 address is displayed as **"00"**.

4-8-2. White balance adjustment (3100K) (Auto)

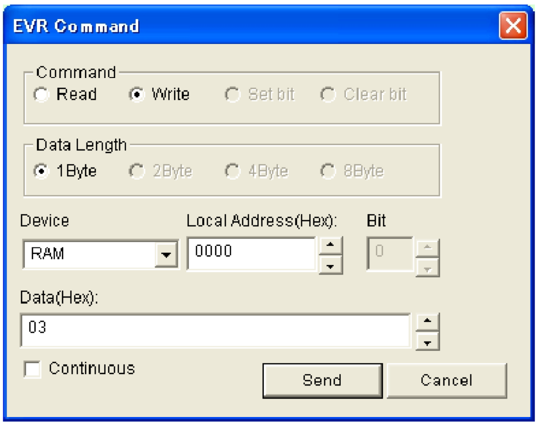
1. Select **"EVR Command"** in **"File(F)"** menu and set each item on EVR Command screen as follows.



Command: ○ Read ● Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0096
Bit: 0
Data(Hex): 19
☐ Continuous

Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0096
Data(Hex)	19

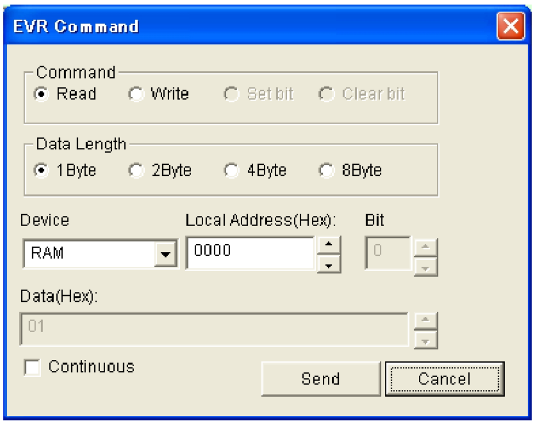
2. Click **"Send"** button. Automatic adjustment starts.
3. After the status lamp display is return to blue, change the local address to **"0000"** and change the data to **"03"**.



Command: ○ Read ● Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0000
Bit: 0
Data(Hex): 03
☐ Continuous

Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000
Data(Hex)	03

4. Click **"Send"** button. Automatic adjustment starts.
5. After the status lamp display is return to blue, set each item on EVR Command screen as follows.

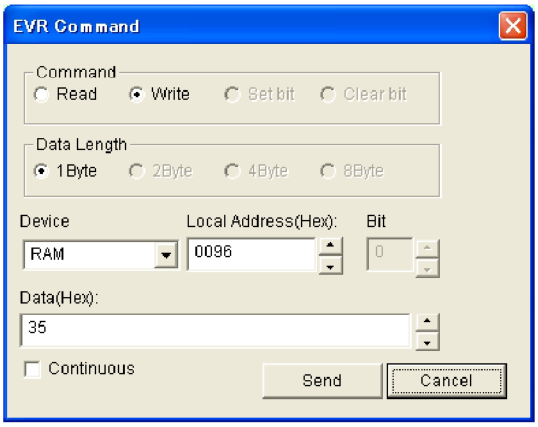


Command: ● Read ○ Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0000
Bit: 0
Data(Hex): 01
☐ Continuous

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000

6. Click **"Send"** button and confirm that the data of 0000 address is displayed as **"00"**.

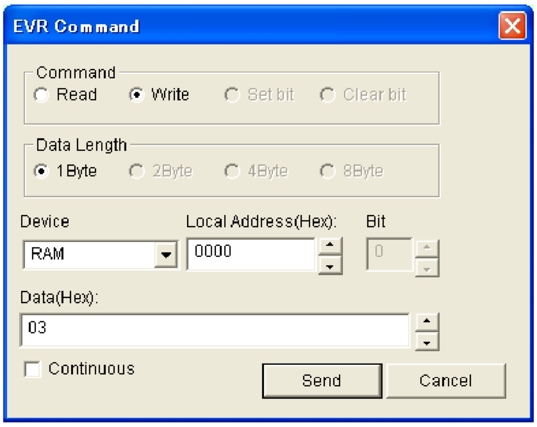
7. Set each item on EVR Command screen as follows. Click **“Send”** button. Automatic adjustment starts.



Command: ○ Read ● Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0096
Bit: 0
Data(Hex): 35
☐ Continuous

Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0096
Data(Hex)	35

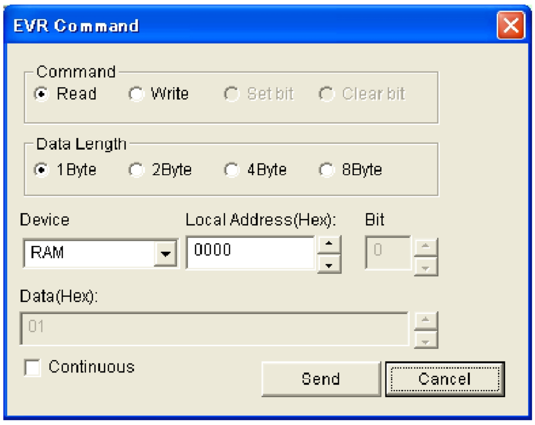
8. After the status lamp display is return to blue, change the local address to **“0000”** and change the data to **“03”**.



Command: ○ Read ● Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0000
Bit: 0
Data(Hex): 03
☐ Continuous

Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000
Data(Hex)	03

9. Click **“Send”** button. Automatic adjustment starts.
10. After the status lamp display is return to blue, set each item on EVR Command screen as follows.



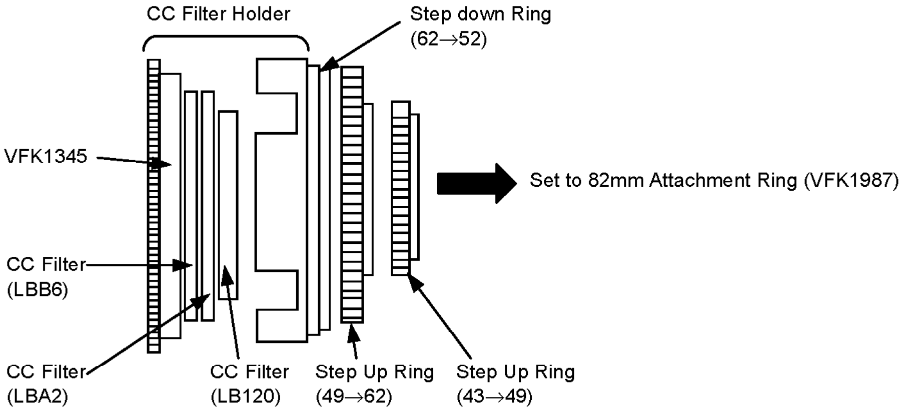
Command: ● Read ○ Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0000
Bit: 0
Data(Hex): 01
☐ Continuous

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000

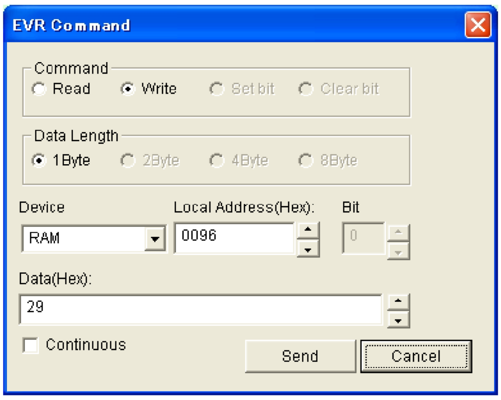
11. Click **“Send”** button and confirm that the data of 0000 address is displayed as **“00”**.

4-8-3. White balance adjustment (5100K) (Auto)

1. Set the Color Conversion filters (LB120: VFK1347), (LBA2: VFK1884) and (LBB6: VFK1888) to the CC Filter Holder (VFK1345).
2. Set the one Step-down Ring (VFK1346) and two Step-up Rings (VFK1659, VFK1660) to the CC Filter Holder as shown in figure.
3. Set the 82mm Attachment Ring (VFK1987) to the front of Lens.
4. Set the CC Filter Holder with Step-up & down Rings to 82mm Attachment Ring (VFK1987).


CC Filter Holder
Step down Ring
(62→52)
VFK1345
Set to 82mm Attachment Ring (VFK1987)
CC Filter
(LBB6)
CC Filter
(LBA2)
CC Filter
(LB120)
Step Up Ring
(49→62)
Step Up Ring
(43→49)

5. Select **“EVR Command”** in **“File(F)”** menu and set each item on EVR Command screen as follows.


EVR Command

Command: ○ Read ● Write ○ Set bit ○ Clear bit

Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte

Device: RAM

Local Address(Hex): 0096

Bit: 0

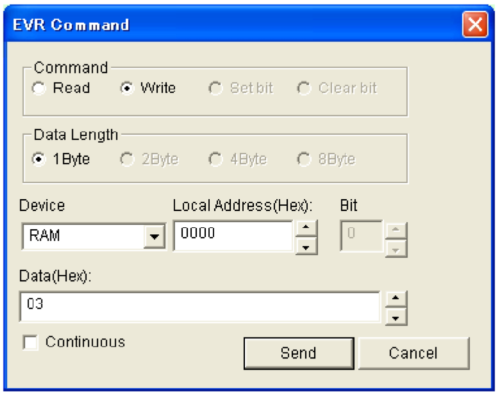
Data(Hex): 29

☐ Continuous

Send
Cancel

Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0096
Data(Hex)	29

6. Click **“Send”** button. Automatic adjustment starts.
7. After the status lamp display is return to blue, change the local address to **“0000”** and change the data to **“03”**.


EVR Command

Command: ○ Read ● Write ○ Set bit ○ Clear bit

Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte

Device: RAM

Local Address(Hex): 0000

Bit: 0

Data(Hex): 03

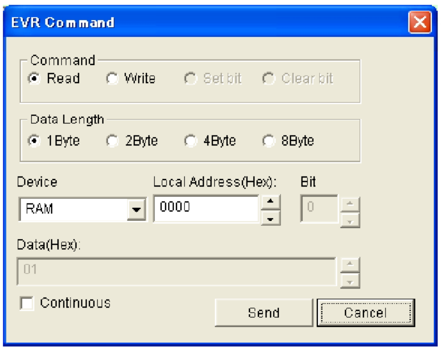
☐ Continuous

Send
Cancel

Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000
Data(Hex)	03

8. Click **“Send”** button. Automatic adjustment starts.

9. After the status lamp display is return to blue, set each item on EVR Command screen as follows.


EVR Command
Send
Cancel

Command: ● Read ○ Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0000
Bit: 0
Data(Hex): 01
☐ Continuous

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000

10. Click **"Send"** button and confirm that the data of 0000 address is displayed as **"00"**.

4-8-4. White balance adjustment (4500K) (Auto)

< In case of NTSC model >

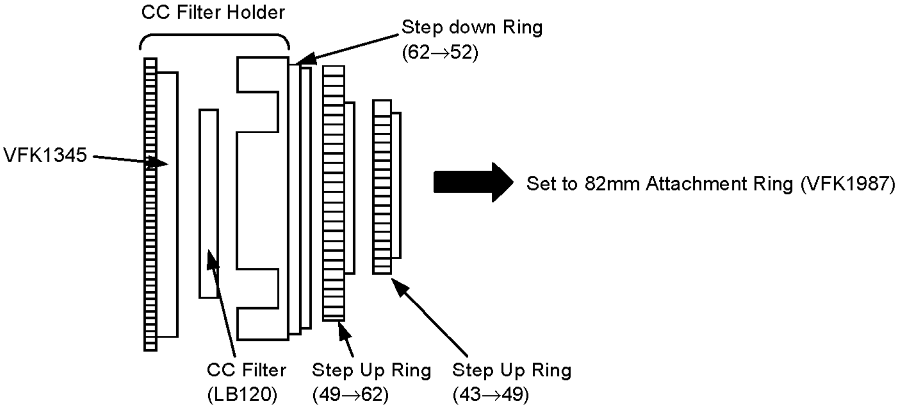
1. Set the Color Conversion filter (LB120: VFK1347) to the CC Filter Holder (VFK1345).

< In case of PAL model >

1. Set the Color Conversion filters (LB40: VFK1341) and (LBB2: VFK1885) to the CC Filter Holder (VFK1345).

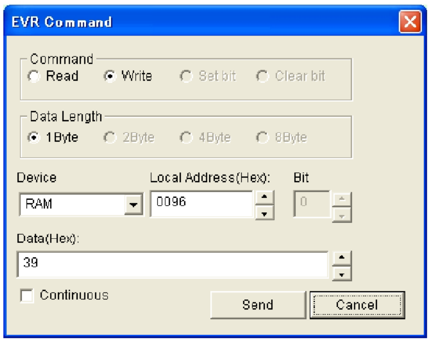
< Common procedures >

2. Set the one Step-down Ring (VFK1346) and two Step-up Rings (VFK1659, VFK1660) to the CC Filter Holder as shown in figure.
3. Set the 82mm Attachment Ring (VFK1987) to the front of Lens.
4. Set the CC Filter Holder with Step-up & down Rings to 82mm Attachment Ring (VFK1987).


CC Filter Holder
Step down Ring
(62→52)
VFK1345
Set to 82mm Attachment Ring (VFK1987)
CC Filter
(LB120)
Step Up Ring
(49→62)
Step Up Ring
(43→49)

NOTE: Above figure shows in case of NTSC.

5. Select **"EVR Command"** in **"File(F)"** menu and set each item on EVR Command screen as follows.

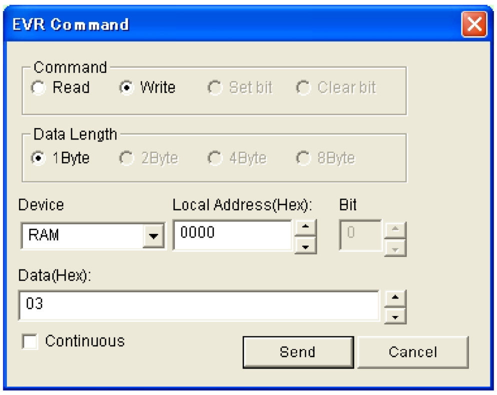

EVR Command
Send
Cancel

Command: ○ Read ● Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0096
Bit: 0
Data(Hex): 39
☐ Continuous

Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0096
Data(Hex)	39

6. Click **"Send"** button. Automatic adjustment starts.

7. After the status lamp display is return to blue, change the local address to **"0000"** and change the data to **"03"**.



EVR Command

Command: ○ Read ● Write ○ Set bit ○ Clear bit

Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte

Device: RAM

Local Address(Hex): 0000

Bit: 0

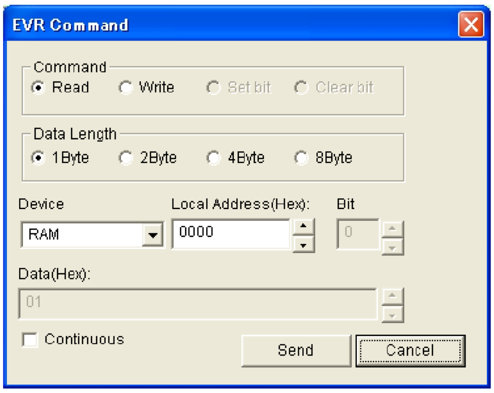
Data(Hex): 03

☐ Continuous

Send
Cancel

Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000
Data(Hex)	03

8. Click **"Send"** button. Automatic adjustment starts.
9. After the status lamp display is return to blue, set each item on EVR Command screen as follows.



EVR Command

Command: ● Read ○ Write ○ Set bit ○ Clear bit

Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte

Device: RAM

Local Address(Hex): 0000

Bit: 0

Data(Hex): 01

☐ Continuous

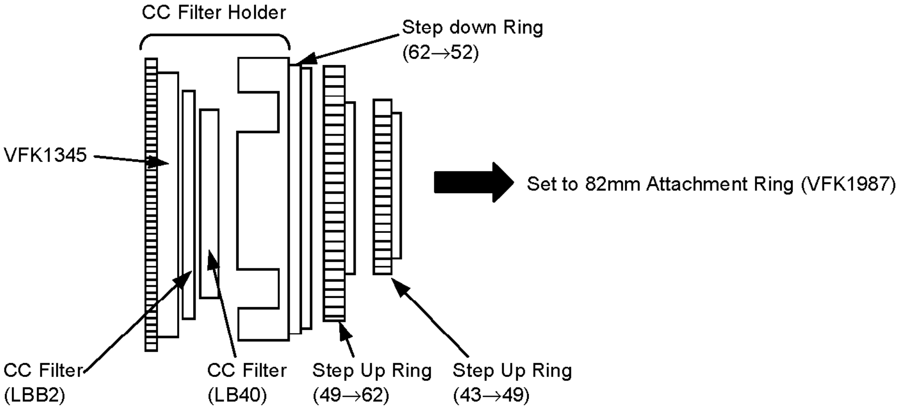
Send
Cancel

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000

10. Click **"Send"** button and confirm that the data of 0000 address is displayed as **"00"**.

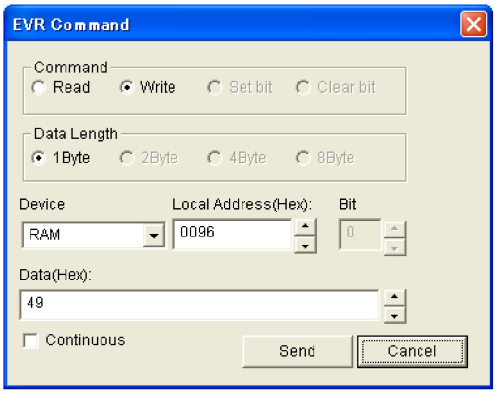
4-8-5. White balance adjustment (3600K) (Auto) (Required only for NTSC model)

1. Set the Color Conversion filters (LB40: VFK1341) and (LBB2: VFK1885) to the CC Filter Holder (VFK1345).
2. Set the one Step-down Ring (VFK1346) and two Step-up Rings (VFK1659, VFK1660) to the CC Filter Holder as shown in figure.
3. Set the 82mm Attachment Ring (VFK1987) to the front of Lens.
4. Set the CC Filter Holder with Step-up & down Rings to 82mm Attachment Ring (VFK1987).



CC Filter Holder
Step down Ring
(62→52)
VFK1345
Set to 82mm Attachment Ring (VFK1987)
CC Filter
(LBB2)
CC Filter
(LB40)
Step Up Ring
(49→62)
Step Up Ring
(43→49)

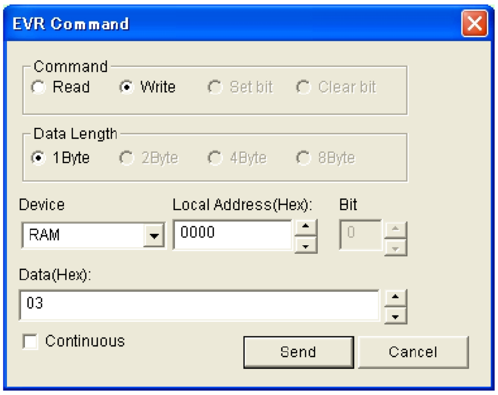
5. Select **“EVR Command”** in **“File(F)”** menu and set each item on EVR Command screen as follows.



Command: ○ Read ● Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0096
Bit: 0
Data(Hex): 49
☐ Continuous

Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0096
Data(Hex)	49

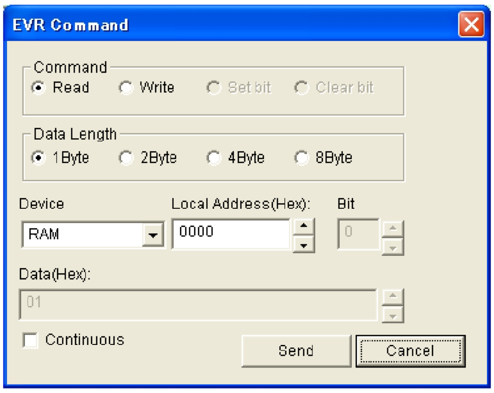
6. Click **“Send”** button. Automatic adjustment starts.
7. After the status lamp display is return to blue, change the local address to **“0000”** and change the data to **“03”**.



Command: ○ Read ● Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0000
Bit: 0
Data(Hex): 03
☐ Continuous

Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000
Data(Hex)	03

8. Click **“Send”** button. Automatic adjustment starts.
9. After the status lamp display is return to blue, set each item on EVR Command screen as follows.



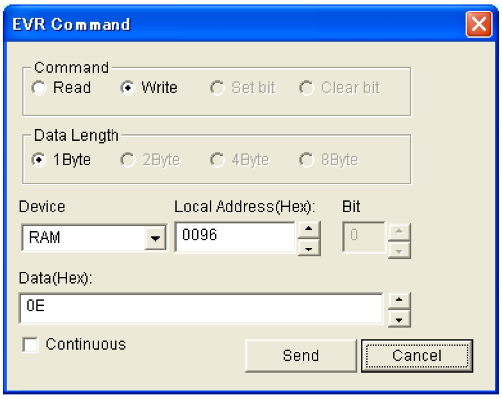
Command: ● Read ○ Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0000
Bit: 0
Data(Hex): 01
☐ Continuous

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000

10. Click **“Send”** button and confirm that the data of 0000 address is displayed as **“00”**.

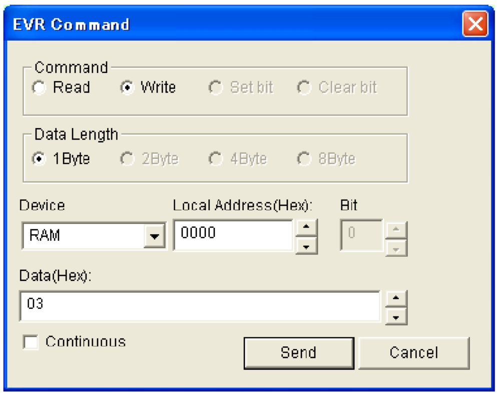
4-8-6. End of White Balance adjustment processing

1. Set each item on EVR Command screen as follows. Click **“Send”** button.


EVR Command
Command: ○ Read ● Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0096
Bit: 0
Data(Hex): 0E
☐ Continuous

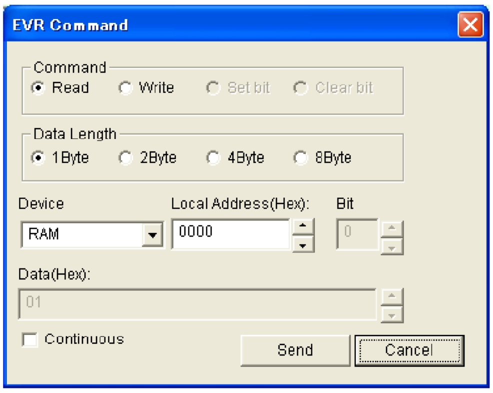
Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0096
Data(Hex)	0E

2. After the status lamp display is return to blue, change the local address to **“0000”** and change the data to **“03”**.


EVR Command
Command: ○ Read ● Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0000
Bit: 0
Data(Hex): 03
☐ Continuous

Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000
Data(Hex)	03

3. Click **“Send”** button. Automatic adjustment starts.
4. After the status lamp display is return to blue, set each item on EVR Command screen as follows.

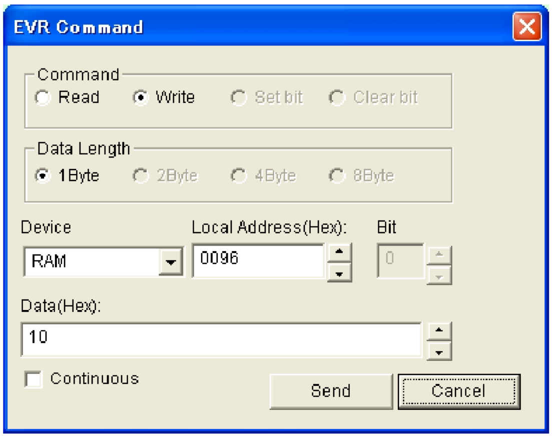

EVR Command
Command: ● Read ○ Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0000
Bit: 0
Data(Hex): 01
☐ Continuous

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000

5. Click **“Send”** button and confirm that the data of 0000 address is displayed as **“00”**.

4-9. White shading adjustment (Auto)

1. Set the GAIN SW of Camera-Recorder to L (0dB).
2. Set the ATW to OFF.
3. Set the Iris to Auto.
4. Aim the Camera-Recorder at white paper under the Halogen lamp condition (3100K, 2000Lux).
5. Shoot the white paper so that the full screen is white.
6. Set White Balance by pressing the AWB SW and confirm that the message **“AWB OK”** appears on the center of screen.
7. Set the item **“MARKER”** to **“ON”** in DISPLAY SETUP screen of setting menu.
8. Press the ZEBRA SW and confirm that the marker appears on the screen.
9. Adjust the Iris dial so that luminance level is 70 to 80%. (Luminance level can be confirmed by numerical value displayed at left side of screen.)
10. Select **“EVR Command”** in **“File(F)”** menu and set each item on EVR Command screen as follows.



EVR Command

Command: ○ Read ● Write ○ Set bit ○ Clear bit

Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte

Device: RAM

Local Address(Hex): 0096

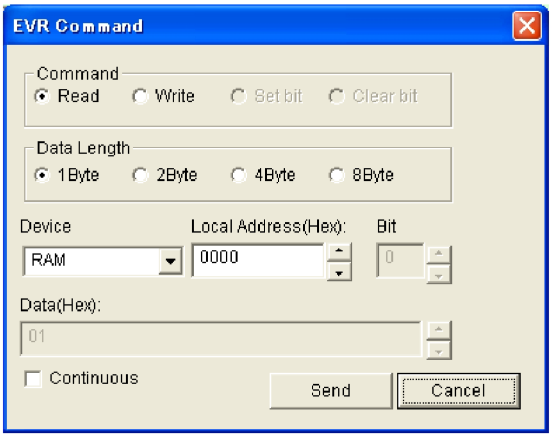
Bit: 0

Data(Hex): 10

☐ Continuous

Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0096
Data(Hex)	10

11. Click **“Send”** button. Automatic adjustment starts.
12. After the status lamp display is return to blue, set each item on EVR Command screen as follows.



EVR Command

Command: ● Read ○ Write ○ Set bit ○ Clear bit

Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte

Device: RAM

Local Address(Hex): 0000

Bit: 0

Data(Hex): 01

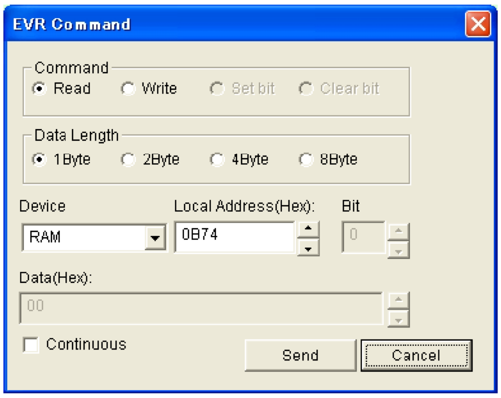
☐ Continuous

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0000

13. Click **“Send”** button and confirm that the data of 0000 address is displayed as **“00”**.

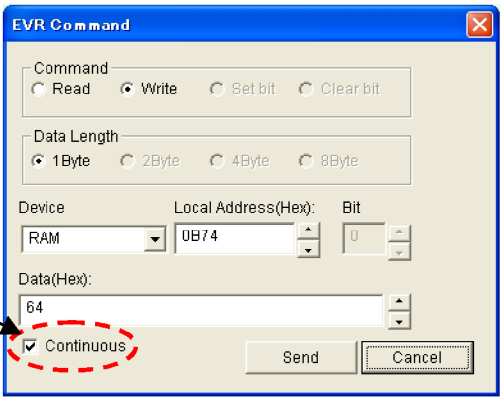
4-10. SYNC level (NTSC: 1080/60i) (PAL: 1080/50i) adjustment

1. Connect the WFM to the COMPONENT Y OUT with 75ohm termination.
   NOTE: Component video cable and PIN-BNC conversion cable are used.
2. Press BARS button to output a color bars signal.
3. Select **"EVR Command"** in **"File(F)"** menu and set each item on EVR Command screen as follows. Click **"Send"** button.


EVR Command
Command
● Read
○ Write
○ Set bit
○ Clear bit
Data Length
● 1Byte
○ 2Byte
○ 4Byte
○ 8Byte
Device
RAM
Local Address(Hex):
0B74
Bit
0
Data(Hex):
00
☐ Continuous
Send
Cancel

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0B74

4. **"Command"** is changed to **"Write"**, and the data value of 0B74 address displayed on the Device View screen is input to the **"Data(Hex)"** box.
5. Check in box of **"Continuous"** and click **"Send"** button.
6. Confirm that the status lamp display became red.

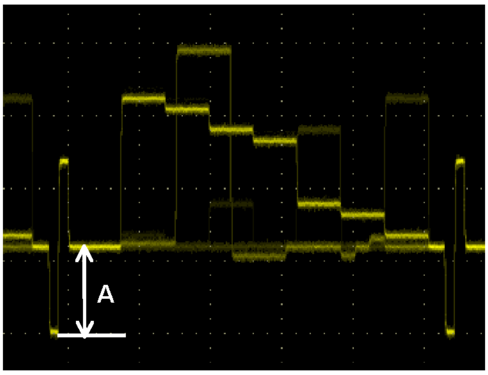

EVR Command
Command
○ Read
● Write
○ Set bit
○ Clear bit
Data Length
● 1Byte
○ 2Byte
○ 4Byte
○ 8Byte
Device
RAM
Local Address(Hex):
0B74
Bit
0
Data(Hex):
64
☑ Continuous
Send
Cancel

Check in box

Command	Write
Data Length	1Byte
Device	RAM
Local Address(Hex)	0B74

7. Adjust sync level **"A"** by changing the value of **"Data(Hex)"** so that it is within specification. The value of **"Data(Hex)"** can be change by arrow keys on EVR Command screen.

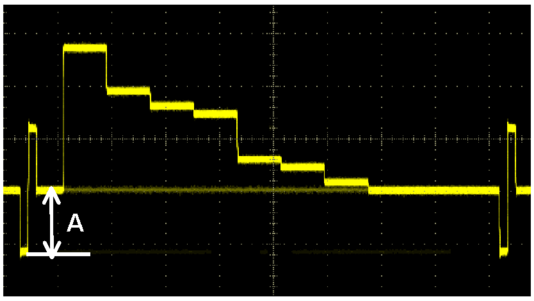
NTSC



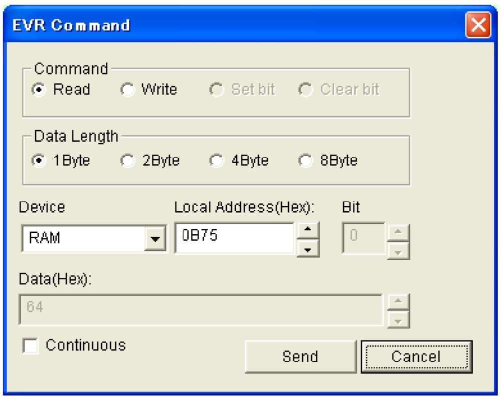
A = -300mV ± 6mV

PAL

A = -300mV ± 6mV



8. After completing the adjustment, the check on **“Continuous”** is removed.
9. Set each item on EVR Command screen as follows. Click **“Send”** button.



Command
● Read ○ Write ○ Set bit ○ Clear bit

Data Length
● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte

Device: RAM
Local Address(Hex): 0B75
Bit: 0

Data(Hex): 64

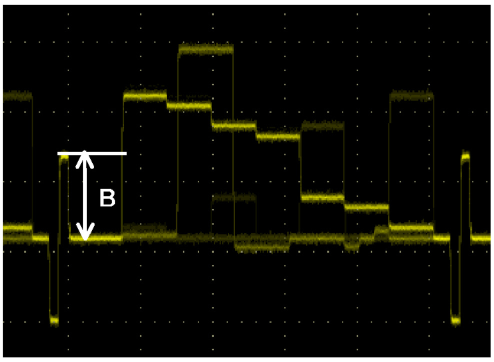
☐ Continuous

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0B75

10. **“Command”** is changed to **“Write”**, and the data value of 0B75 address displayed on the Device View screen is input to the **“Data(Hex)”** box.
11. Check in box of **“Continuous”** and click **“Send”** button.
12. Confirm that the status lamp display became red.
13. Adjust sync level **“B”** by changing the value of **“Data(Hex)”** so that it is within specification. The value of **“Data(Hex)”** can be change by arrow keys on EVR Command screen.

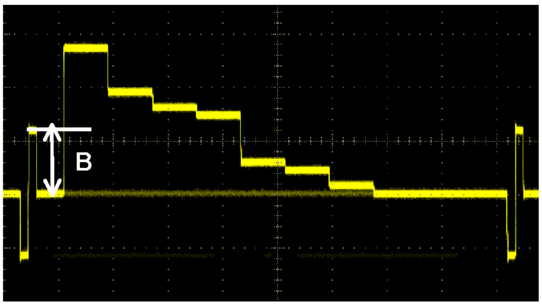
NTSC

B = +300mV ± 6mV



PAL

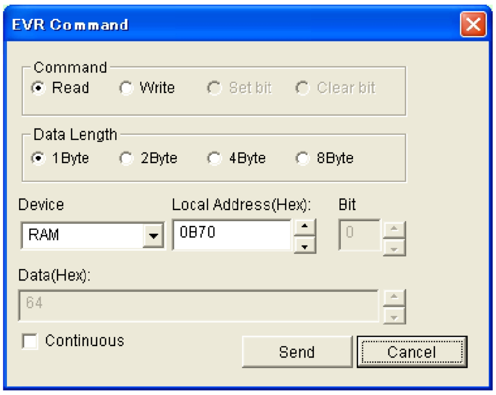
B = +300mV ± 6mV



14. After completing the adjustment, the check on **“Continuous”** is removed.

4-11. Y level (NTSC: 1080/60i) (PAL: 1080/50i) adjustment

1. Connect the WFM to the COMPONENT Y OUT with 75ohm termination.
   NOTE: Component video cable and PIN-BNC conversion cable are used.
2. Press BARS button to output a color bars signal.
3. Select **"EVR Command"** in **"File(F)"** menu and set each item on EVR Command screen as follows. Click **"Send"** button.



EVR Command

Command
● Read ○ Write ○ Set bit ○ Clear bit

Data Length
● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte

Device: RAM

Local Address(Hex): 0B70

Bit: 0

Data(Hex): 64

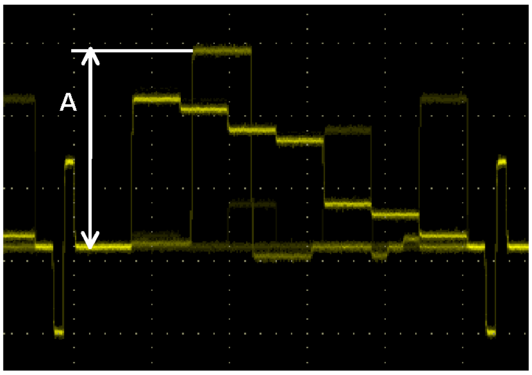
☐ Continuous

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0B70

4. **"Command"** is changed to **"Write"**, and the data value of 0B70 address displayed on the Device View screen is input to the **"Data(Hex)"** box.
5. Check in box of **"Continuous"** and click **"Send"** button.
6. Confirm that the status lamp display became red.
7. Adjust Y level **"A"** by changing the value of **"Data(Hex)"** so that it is within specification. The value of **"Data(Hex)"** can be change by arrow keys on EVR Command screen.
   NOTE: The pedestal level is a standard.

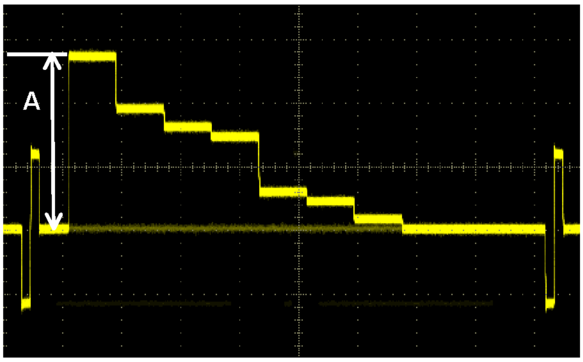
NTSC

A = 700mV ± 14mV



PAL

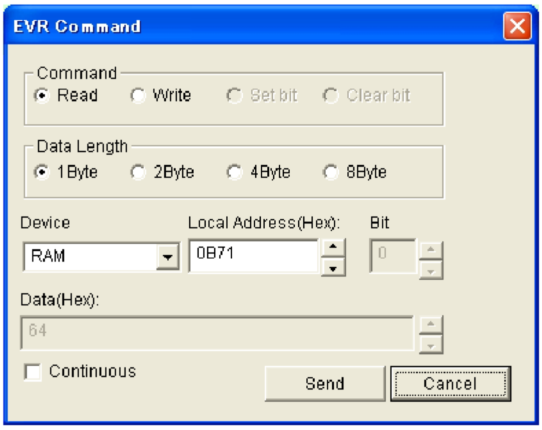
A = 700mV ± 14mV



8. After completing the adjustment, the check on **"Continuous"** is removed.

4-12. Pb level (NTSC: 1080/60i) (PAL: 1080/50i) adjustment

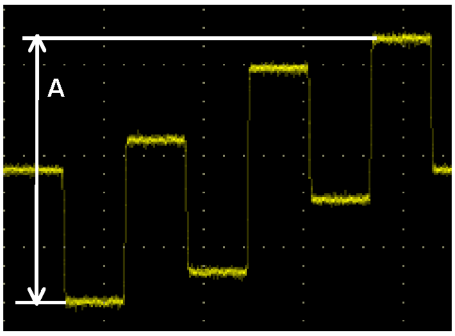
1. Connect the WFM to the COMPONENT Pb OUT with 75ohm termination.
   NOTE: Component video cable and PIN-BNC conversion cable are used.
2. Press BARS button to output a color bars signal.
3. Select **"EVR Command"** in **"File(F)"** menu and set each item on EVR Command screen as follows. Click **"Send"** button.


EVR Command
Command
● Read
○ Write
○ Set bit
○ Clear bit
Data Length
● 1Byte
○ 2Byte
○ 4Byte
○ 8Byte
Device
RAM
Local Address(Hex):
0B71
Bit
0
Data(Hex):
64
☐ Continuous
Send
Cancel

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0B71

4. **"Command"** is changed to **"Write"**, and the data value of 0B71 address displayed on the Device View screen is input to the **"Data(Hex)"** box.
5. Check in box of **"Continuous"** and click **"Send"** button.
6. Confirm that the status lamp display became red.
7. Adjust Pb level **"A"** by changing the value of **"Data(Hex)"** so that it is within specification. The value of **"Data(Hex)"** can be change by arrow keys on EVR Command screen.

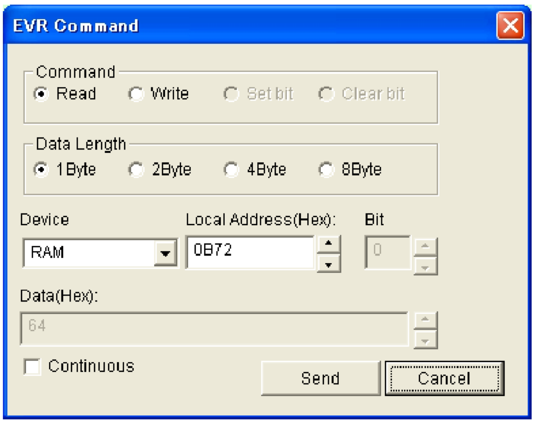
A = 525mV ± 11mV



8. After completing the adjustment, the check on **"Continuous"** is removed.

4-13. Pr level (NTSC: 1080/60i) (PAL: 1080/50i) adjustment

1. Connect the WFM to the COMPONENT Pr OUT with 75ohm termination.
   NOTE: Component video cable and PIN-BNC conversion cable are used.
2. Press BARS button to output a color bars signal.
3. Select **"EVR Command"** in **"File(F)"** menu and set each item on EVR Command screen as follows. Click **"Send"** button.



Command: ● Read ○ Write ○ Set bit ○ Clear bit

Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte

Device: RAM

Local Address(Hex): 0B72

Bit: 0

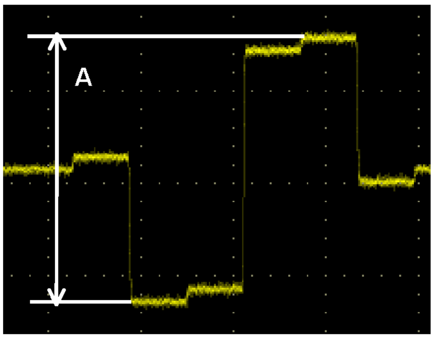
Data(Hex): 64

☐ Continuous

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0B72

4. **"Command"** is changed to **"Write"**, and the data value of 0B72 address displayed on the Device View screen is input to the **"Data(Hex)"** box.
5. Check in box of **"Continuous"** and click **"Send"** button.
6. Confirm that the status lamp display became red.
7. Adjust Pr level **"A"** by changing the value of **"Data(Hex)"** so that it is within specification. The value of **"Data(Hex)"** can be change by arrow keys on EVR Command screen.

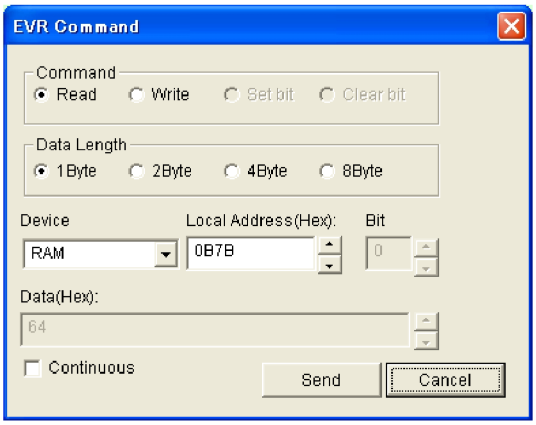
A = 525mV ± 11mV



8. After completing the adjustment, the check on **"Continuous"** is removed.

4-14. Luminance level adjustment

1. Connect the WFM to the VIDEO OUT with 75ohm termination.
2. Press BARS button to output a color bars signal.
3. Select **“EVR Command”** in **“File(F)”** menu and set each item on EVR Command screen as follows. Click **“Send”** button.

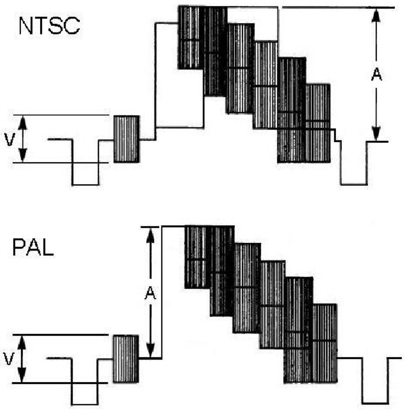


Command: ● Read ○ Write ○ Set bit ○ Clear bit
Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte
Device: RAM
Local Address(Hex): 0B7B
Bit: 0
Data(Hex): 64
☐ Continuous

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0B7B

4. **“Command”** is changed to **“Write”**, and the data value of 0B7B address displayed on the Device View screen is input to the **“Data(Hex)”** box.
5. Check in box of **“Continuous”** and click **“Send”** button.
6. Confirm that the status lamp display became red.
7. Adjust Luminance level **“A”** by changing the value of **“Data(Hex)”** so that it is within specification. The value of **“Data(Hex)”** can be change by arrow keys on EVR Command screen.

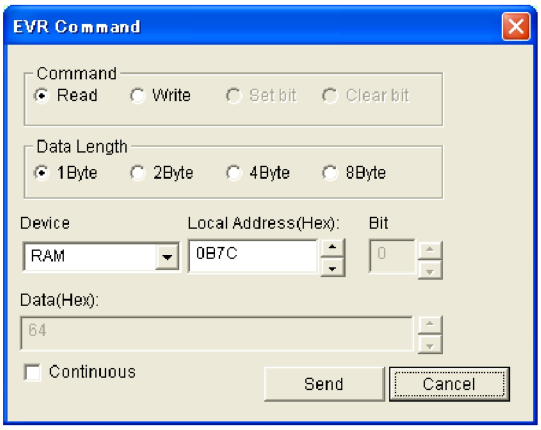
NTSC: A = 100 IRE ± 2IRE
PAL: A = 700 mVp-p ± 14mV



8. After completing the adjustment, the check on **“Continuous”** is removed.

4-15. Chroma level adjustment

1. Connect the WFM to the VIDEO OUT with 75ohm termination.
2. Press BARS button to output a color bars signal.
3. Select **“EVR Command”** in **“File(F)”** menu and set each item on EVR Command screen as follows. Click **“Send”** button.



EVR Command

Command: ● Read ○ Write ○ Set bit ○ Clear bit

Data Length: ● 1Byte ○ 2Byte ○ 4Byte ○ 8Byte

Device: RAM

Local Address(Hex): 0B7C

Bit: 0

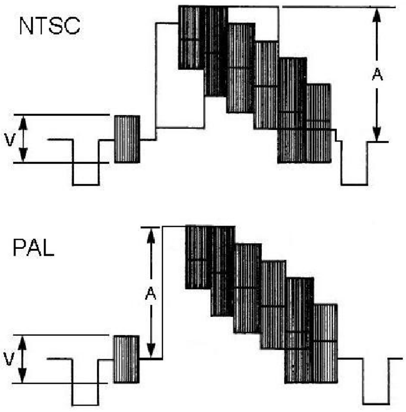
Data(Hex): 64

☐ Continuous

Command	Read
Data Length	1Byte
Device	RAM
Local Address(Hex)	0B7C

4. **“Command”** is changed to **“Write”**, and the data value of 0B7C address displayed on the Device View screen is input to the **“Data(Hex)”** box.
5. Check in box of **“Continuous”** and click **“Send”** button.
6. Confirm that the status lamp display became red.
7. Adjust Chroma level **“A”** by changing the value of **“Data(Hex)”** so that it is within specification. The value of **“Data(Hex)”** can be change by arrow keys on EVR Command screen.

NTSC: V (Burst) = 40 IRE ± 3 IRE
PAL: V (Burst) = 300 mVp-p ± 20 mV

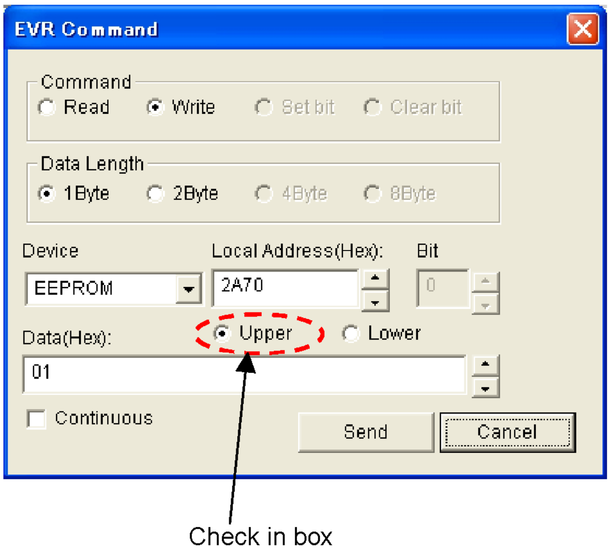


8. After completing the adjustment, the check on **“Continuous”** is removed.

4-16. SETUP adjustment (Required only for NTSC model)

An initial value of item SETUP of the CAMERA SETUP menu is set to **“7.5%A”**.
NOTE: It is a setting of the item SETUP displayed in the P2-CAMERA mode.

1. Select **“EVR Command”** in **“File(F)”** menu and set each item on EVR Command screen as follows.


EVR Command
Command
○ Read
● Write
○ Set bit
○ Clear bit
Data Length
● 1Byte
○ 2Byte
○ 4Byte
○ 8Byte
Device
Local Address(Hex):
Bit
Data(Hex):
● Upper
○ Lower
☐ Continuous
Send
Cancel

Device: EEPROM
Local Address(Hex): 2A70
Bit: 0
Data(Hex): 01

Check in box

Command	Write
Data Length	1Byte
Device	EEPROM
Local Address(Hex)	2A70
Data(Hex)	01

2. Check in box of **“Upper”** and click **“Send”** button.
3. After the status lamp display is return to blue, Local Address is changed in **“6920”**.
4. Check in box of **“Lower”** and click **“Send”** button.
5. Next, after the status lamp display is return to blue, Local Address is changed in **“6990”**.
6. Click **“Send”** button.

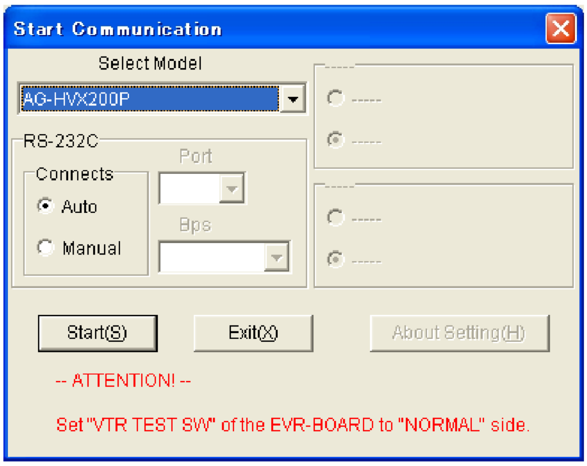
5. Adjustment procedure (VTR section)

When VTR is adjusted, the PC EVR software **(VVS0032)** for VTR adjustment is used.
Confirm that the **SW8** on measuring board sets to **“VTR”** side.

5-1. Preparation of adjustment

5-1-1. Setup of PC EVR software for VTR adjustment

1. Copy all files of the PC EVR software **(VVS0032)** for VTR adjustment to the PC.
2. Set the **MEDIA** switch to **“VTR”** position.
3. Supply power to the Camera-Recorder and turn power ON.
4. Start up the PC EVR software by double-clicking **“HVX200.exe”**. The following screen will appear.


Start Communication
RS-232C
Port
Bps
Start(S)
Exit(X)
About Setting(H)

Select Model: AG-HVX200P

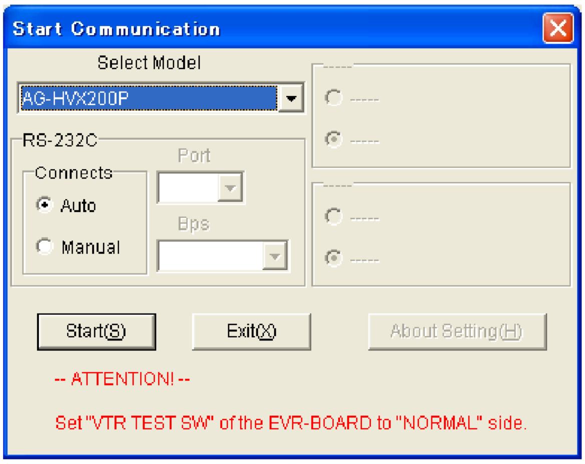
Connects: ● Auto ○ Manual

-- ATTENTION! --

Set "VTR TEST SW" of the EVR-BOARD to "NORMAL" side.

5-1-2. Setting of communication

1. Select the model in **“Select Model”** box.


Start Communication
RS-232C
Port
Bps
Start(S)
Exit(X)
About Setting(H)

Select Model: AG-HVX200P

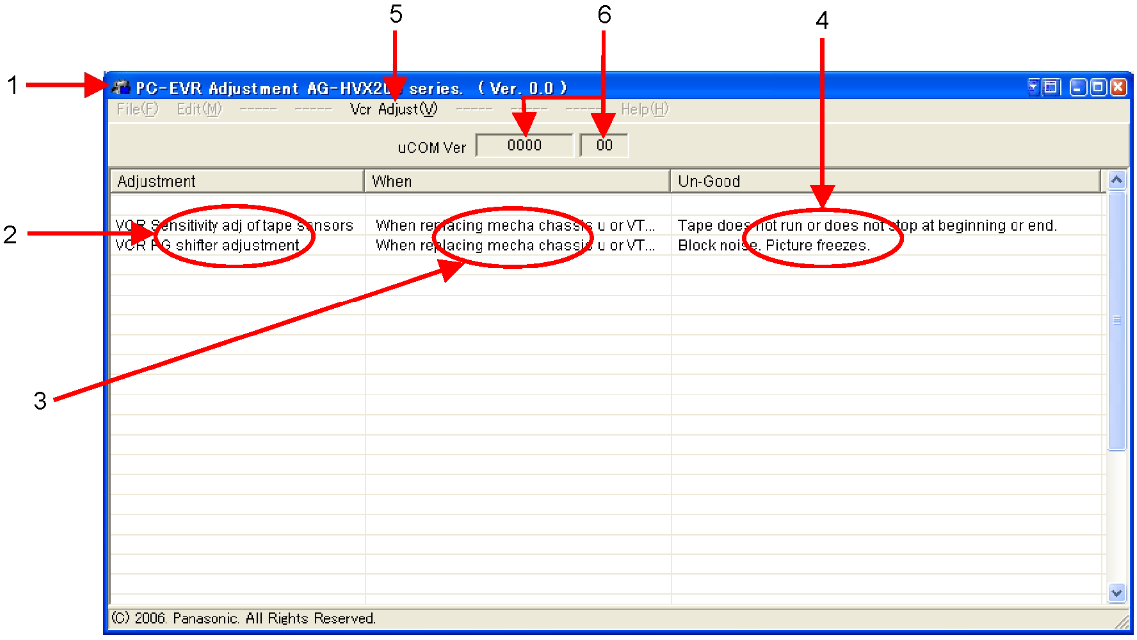
Connects: ● Auto ○ Manual

-- ATTENTION! --

Set "VTR TEST SW" of the EVR-BOARD to "NORMAL" side.

2. Click **“Start(S)”** button. The main menu screen will appear.

5-1-3. Explanation of main menu


1
2
3
4
5
6
PC-EVR Adjustment AG-HVX2 series. (Ver. 0.0)
File(F) Edit(M) ----- ----- Vcr Adjust(V) ----- ----- ----- Help(H)
uCOM Ver
0000
00
(C) 2006. Panasonic. All Rights Reserved.

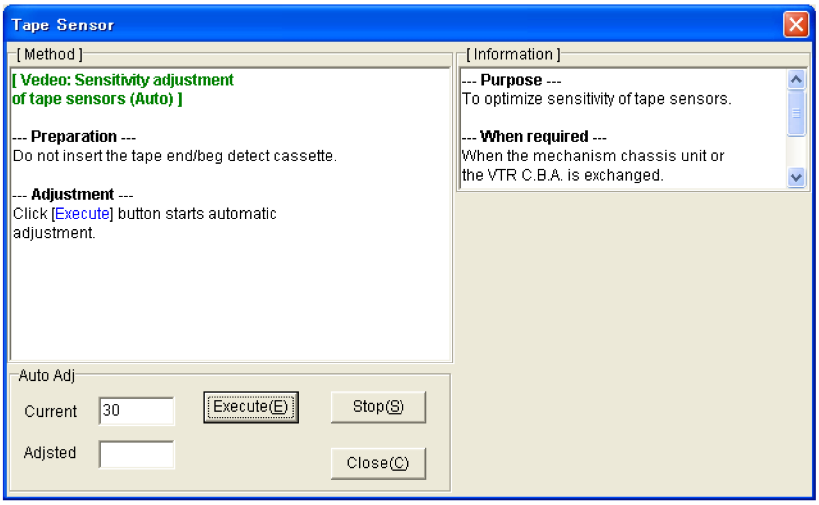
Adjustment	When	Un-Good
VCR Sensitivity adj of tape sensors	When replacing mecha chassis u or VT...	Tape does not run or does not stop at beginning or end.
VCR FG shifter adjustment	When replacing mecha chassis u or VT...	Block noise. Picture freezes.

1: Software name and version
2: List of adjustment items
3: When required
4: Phenomenon when adjustment is not good
5: VTR adjustment
6: µCOM version

5-2. Sensitivity adjustment of tape sensors (Auto)

NOTE: Do not insert the tape end/beg detect cassette to the Camera-Recorder.

1. Double-click the adjustment item **"VCR Sensitivity adj. of tape sensors"** in the main menu. The following screen will appear.


Tape Sensor
[Method]
[Information]
Auto Adj
Execute(E)
Stop(S)
Close(C)

[Vedeo: Sensitivity adjustment of tape sensors (Auto)]

--- **Preparation** ---
Do not insert the tape end/beg detect cassette.

--- **Adjustment** ---
Click [Execute] button starts automatic adjustment.

--- **Purpose** ---
To optimize sensitivity of tape sensors.

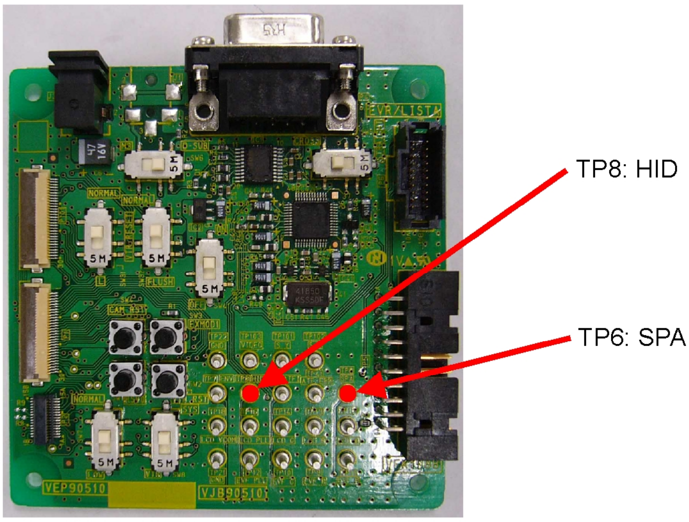
--- **When required** ---
When the mechanism chassis unit or the VTR C.B.A. is exchanged.

Current 30
Adjsted

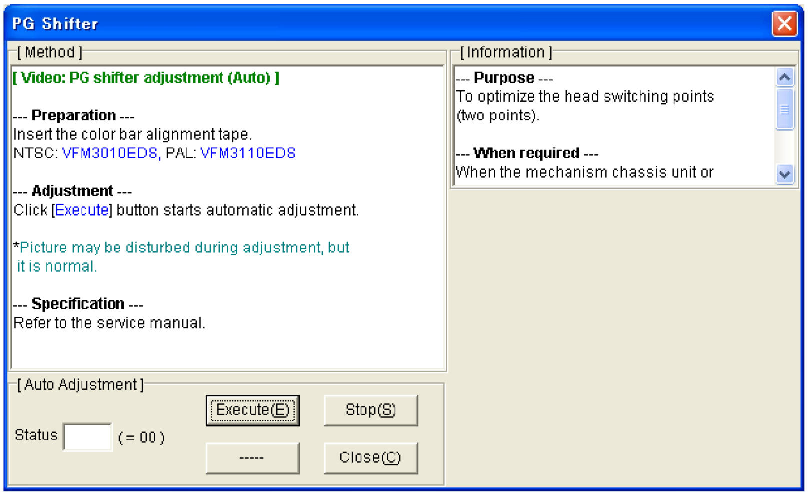
2. Click **"Execute(E)"** button. Automatic adjustment starts.
3. After adjustment has been completed, click **"Close(C)"** button to escape this menu.

5-3. PG shifter adjustment (Auto)

1. Connect the oscilloscope to **"TP6: SPA"** and **"TP8: HID"** on the measuring board.



2. Insert the DV color bar alignment tape (VFM3010EDS: NTSC or VFM3110EDS: PAL) to the Camera-Recorder.
3. Double-click the adjustment item **"VCR PG shifter adjustment"** in the main menu. The following screen will appear.



[Video: PG shifter adjustment (Auto)]

--- **Preparation** ---
Insert the color bar alignment tape.
NTSC: VFM3010EDS, PAL: VFM3110EDS

--- **Adjustment** ---
Click [Execute] button starts automatic adjustment.

*Picture may be disturbed during adjustment, but
it is normal.

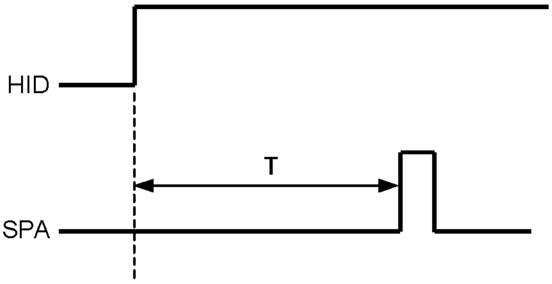
--- **Specification** ---
Refer to the service manual.

Status (= 00)

--- **Purpose** ---
To optimize the head switching points
(two points).

--- **When required** ---
When the mechanism chassis unit or

4. Click **"Execute(E)"** button. Automatic adjustment starts.
5. After adjustment has been completed, confirm that the portion **"T"** is within specification as shown below.



T = 126 ± 1 μsec

6. Click **"Close(C)"** button to escape this menu.

SECTION 5

BLOCK DIAGRAMS
ブロック図

MODEL: AG-HVX200/P/AN/E/MC/HVX202EN

CONTENTS

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  VIDEO BLOCK DIAGRAM (VCR REC: EXT IN)....BLK-4
  VIDEO BLOCK DIAGRAM (VCR REC: 1394 IN)....BLK-5
  VIDEO BLOCK DIAGRAM (VCR PLAY)....BLK-6
  VIDEO BLOCK DIAGRAM (P2-CAMERA REC)....BLK-7
  VIDEO BLOCK DIAGRAM (MCR REC: 1394 IN)....BLK-8
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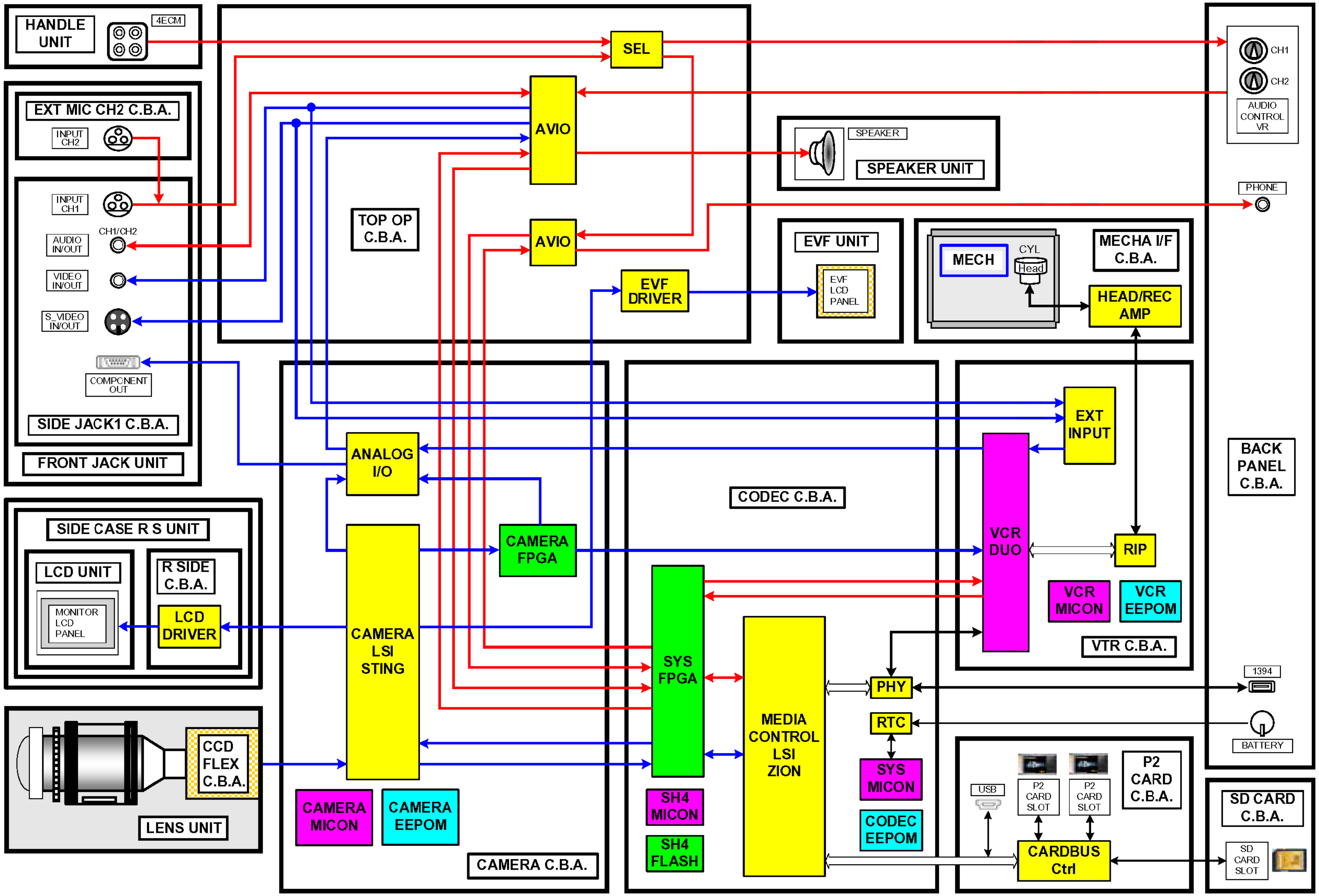
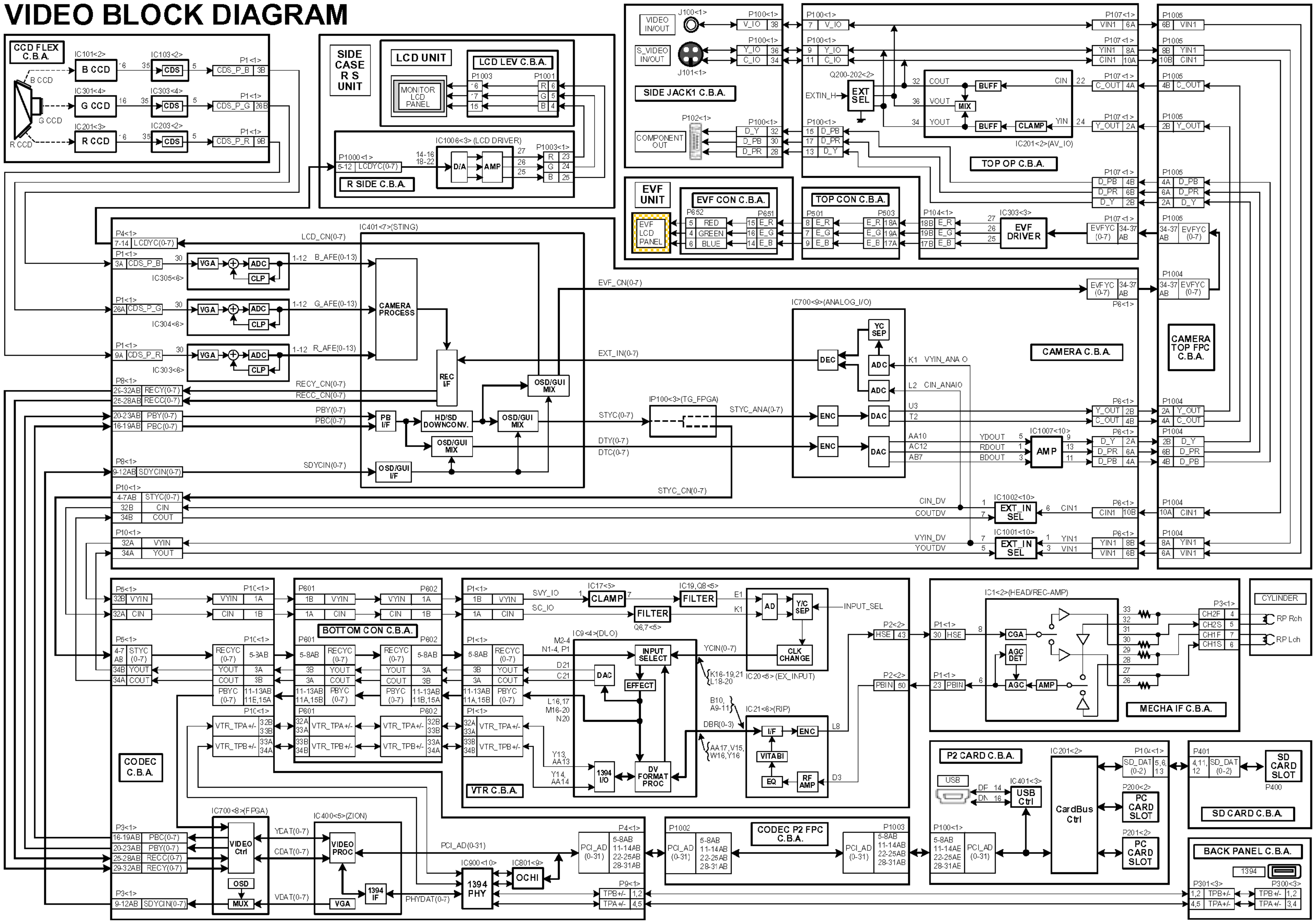
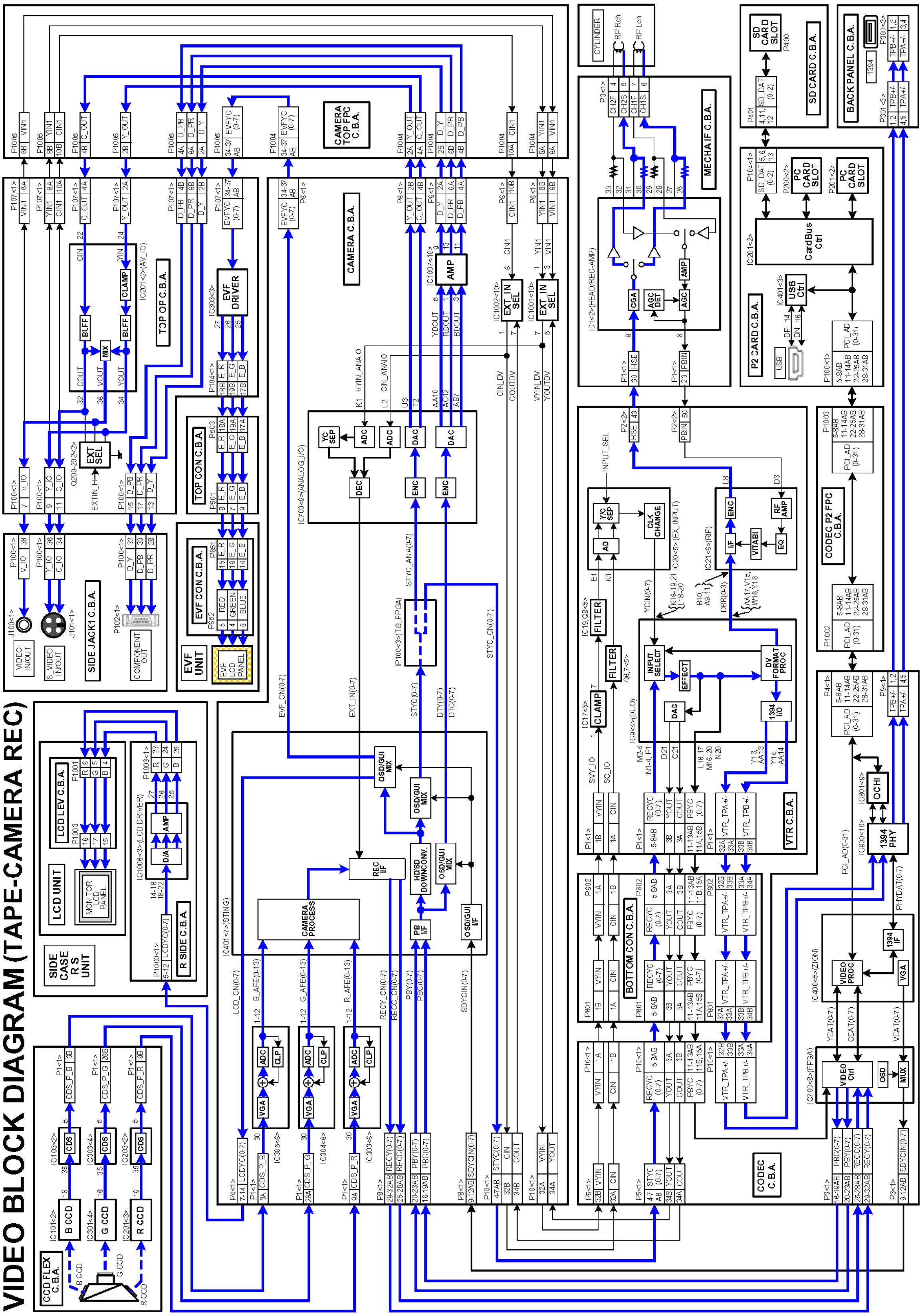
OVERALL BLOCK DIAGRAM


HANDLE UNIT
4ECM
EXT MIC CH2 C.B.A.
INPUT CH2
INPUT CH1
CH1/CH2
AUDIO IN/OUT
VIDEO IN/OUT
S_VIDEO IN/OUT
COMPONENT OUT
SIDE JACK1 C.B.A.
FRONT JACK UNIT
SIDE CASE R S UNIT
LCD UNIT
MONITOR LCD PANEL
R SIDE C.B.A.
LCD DRIVER
CCD FLEX C.B.A.
LENS UNIT
TOP OP C.B.A.
SEL
AVIO
AVIO
EVF DRIVER
SPEAKER
SPEAKER UNIT
EVF UNIT
EVF LCD PANEL
MECH
CYL
Head
MECHA I/F C.B.A.
HEAD/REC AMP
ANALOG I/O
CAMERA FPGA
CAMERA LSI STING
CAMERA MICON
CAMERA EEPOM
CAMERA C.B.A.
CODEC C.B.A.
SYS FPGA
SH4 MICON
SH4 FLASH
MEDIA CONTROL LSI ZION
PHY
RTC
SYS MICON
CODEC EEPOM
EXT INPUT
VCR DUO
RIP
VCR MICON
VCR EEPOM
VTR C.B.A.
USB
P2 CARD SLOT
P2 CARD SLOT
P2 CARD C.B.A.
CARDBUS Ctrl
CH1
CH2
AUDIO CONTROL VR
PHONE
BACK PANEL C.B.A.
1394
BATTERY
SD CARD C.B.A.
SD CARD SLOT

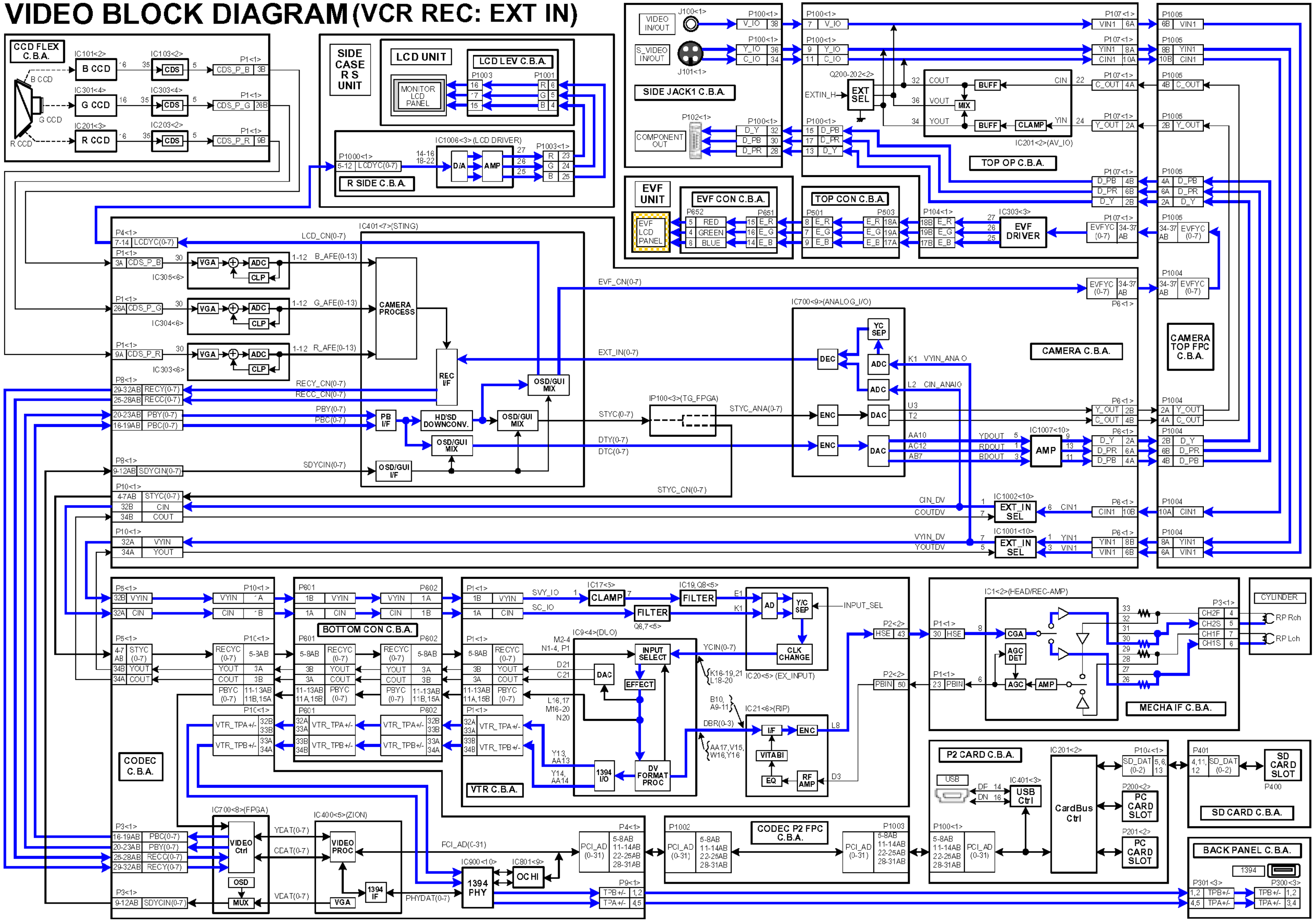
VIDEO BLOCK DIAGRAM


CCD FLEX C.B.A.
B CCD
G CCD
R CCD
CDS
SIDE CASE R S UNIT
LCD UNIT
LCD LEV C.B.A.
MONITOR LCD PANEL
IC1006<3> (LCD DRIVER)
D/A
AMP
R SIDE C.B.A.
SIDE JACK1 C.B.A.
VIDEO IN/OUT
S_VIDEO IN/OUT
COMPONENT OUT
TOP OP C.B.A.
IC201<2>(AV_IO)
EXT SEL
BUFF
MIX
CLAMP
EVF UNIT
EVF LCD PANEL
EVF CON C.B.A.
TOP CON C.B.A.
IC303<3>
EVF DRIVER
CAMERA TOP FPC C.B.A.
CAMERA C.B.A.
IC401<7>(STING)
VGA
ADC
CLP
CAMERA PROCESS
REC I/F
PB I/F
HD/SD DOWNCONV.
OSD/GUI MIX
OSD/GUI I/F
IP100<3>(TG_FPGA)
IC700<9>(ANALOG_I/O)
YC SEP
DEC
ENC
DAC
IC1007<10>
IC1002<10>
IC1001<10>
EXT_IN SEL
CODEC C.B.A.
BOTTOM CON C.B.A.
VTR C.B.A.
IC17<5>
IC19,Q8<5>
FILTER
IC20<5>(EX_INPUT)
AD
Y/C SEP
CLK CHANGE
IC9<4>(DLO)
INPUT SELECT
EFFECT
1394 I/O
DV FORMAT PROC
IC21<6>(RIP)
I/F
VITABI
EQ
RF AMP
MECHA IF C.B.A.
IC1<2>(HEAD/REC-AMP)
CGA
AGC DET
AGC
CYLINDER
RP Rch
RP Lch
IC700<8>(FPGA)
VIDEO Ctrl
OSD
MUX
IC400<5>(ZION)
VIDEO PROC
1394 I/F
IC900<10>
1394 PHY
IC801<9>
OCHI
CODEC P2 FPC C.B.A.
P2 CARD C.B.A.
USB
IC401<3>
USB Ctrl
IC201<2>
CardBus Ctrl
PC CARD SLOT
SD CARD C.B.A.
SD CARD SLOT
BACK PANEL C.B.A.
1394

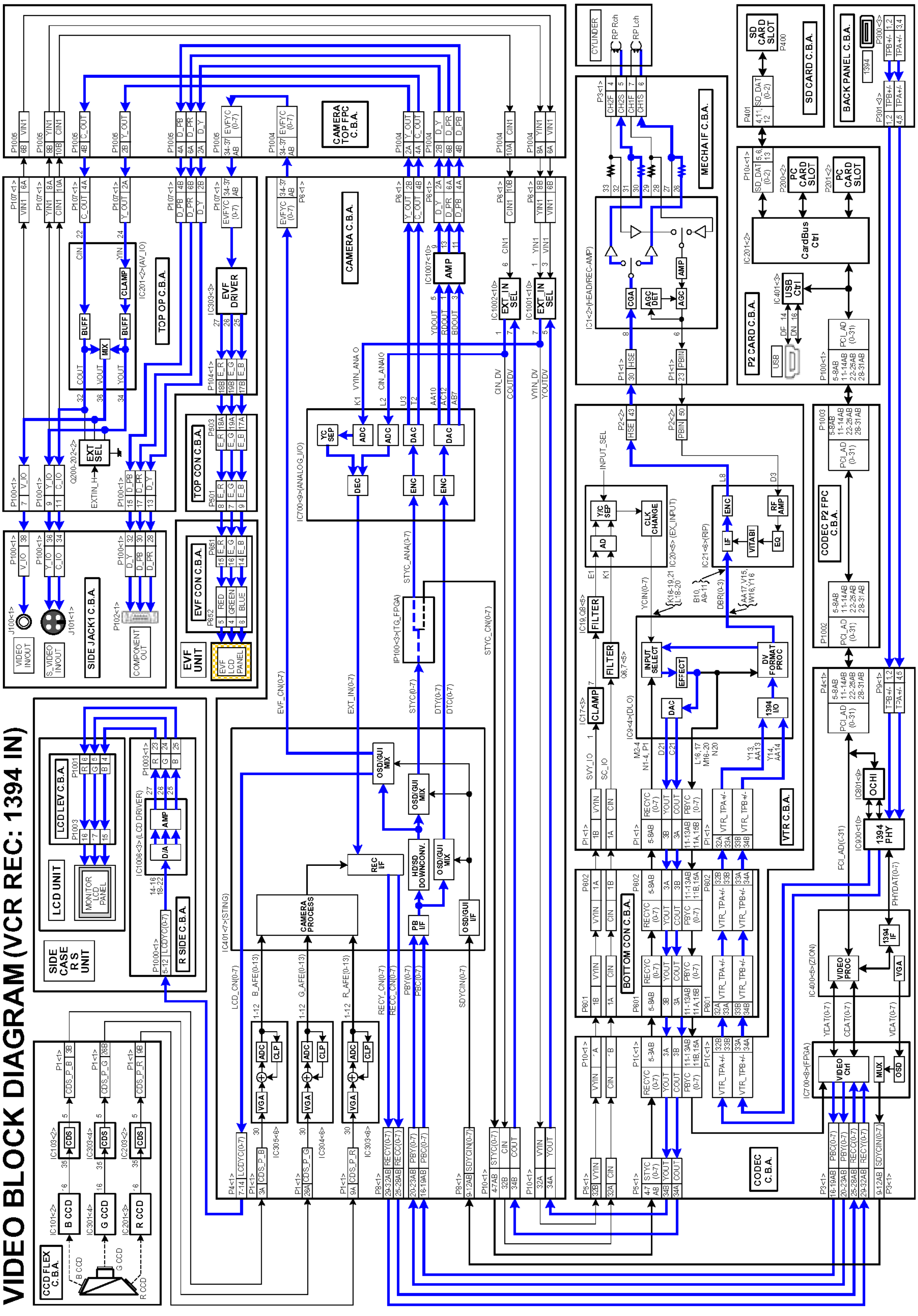
VIDEO BLOCK DIAGRAM (TAPE-CAMERA REC)


CCD FLEX C.B.A.
B CCD
G CCD
R CCD
IC101<2> B CCD
IC301<4> G CCD
IC201<3> R CCD
CDS
SIDE CASE R S UNIT
LCD UNIT
MONITOR LCD PANEL
LCD LEV C.B.A.
R SIDE C.B.A.
IC1008<3> (LCD DRIVER)
D/A
AMP
SIDE JACK1 C.B.A.
VIDEO IN/OUT
S_VIDEO IN/OUT
COMPONENT OUT
EVF UNIT
EVF LCD PANEL
EVF CON C.B.A.
TOP CON C.B.A.
TOP OP C.B.A.
EVF DRIVER
EXT SEL
BUFF
CLAMP
MIX
CAMERA TOP FPC C.B.A.
CAMERA C.B.A.
IC700<9>(ANALOG_I/O)
YC SEP
ADC
DAC
DEC
ENC
EXT_IN SEL
IC401<7>(STING)
CAMERA PROCESS
REC I/F
OSD/GUI MIX
HD/SD DOWNCONV.
PB I/F
OSD/GUI I/F
VGA
CLP
IP100<3>(TG_FPGA)
BOTTOM CON C.B.A.
CODEC C.B.A.
IC700<8>(FPGA)
VIDEO Ctrl
OSD
MUX
IC400<6>(ZION)
VIDEO PROC
1394 I/F
1394 PHY
OCHI
VTR C.B.A.
IC9<4>(DLO)
INPUT SELECT
EFFECT
DV FORMAT PROC
1394 I/O
FILTER
IC17<3> CLAMP
IC20<5>(EX_INPUT)
AD
Y/C SEP
CLK CHANGE
IC21<6>(RP)
I/F
VITABI
EQ
RF AMP
MECHA IF C.B.A.
IC1<2>(HEAD/REC-AMP)
CGA
AGC DET
AGC
CYLINDER
RP Rch
RP Lch
CODEC P2 FPC C.B.A.
P2 CARD C.B.A.
USB
USB Ctrl
CardBus Ctrl
PC CARD SLOT
SD CARD C.B.A.
SD CARD SLOT
BACK PANEL C.B.A.
1394

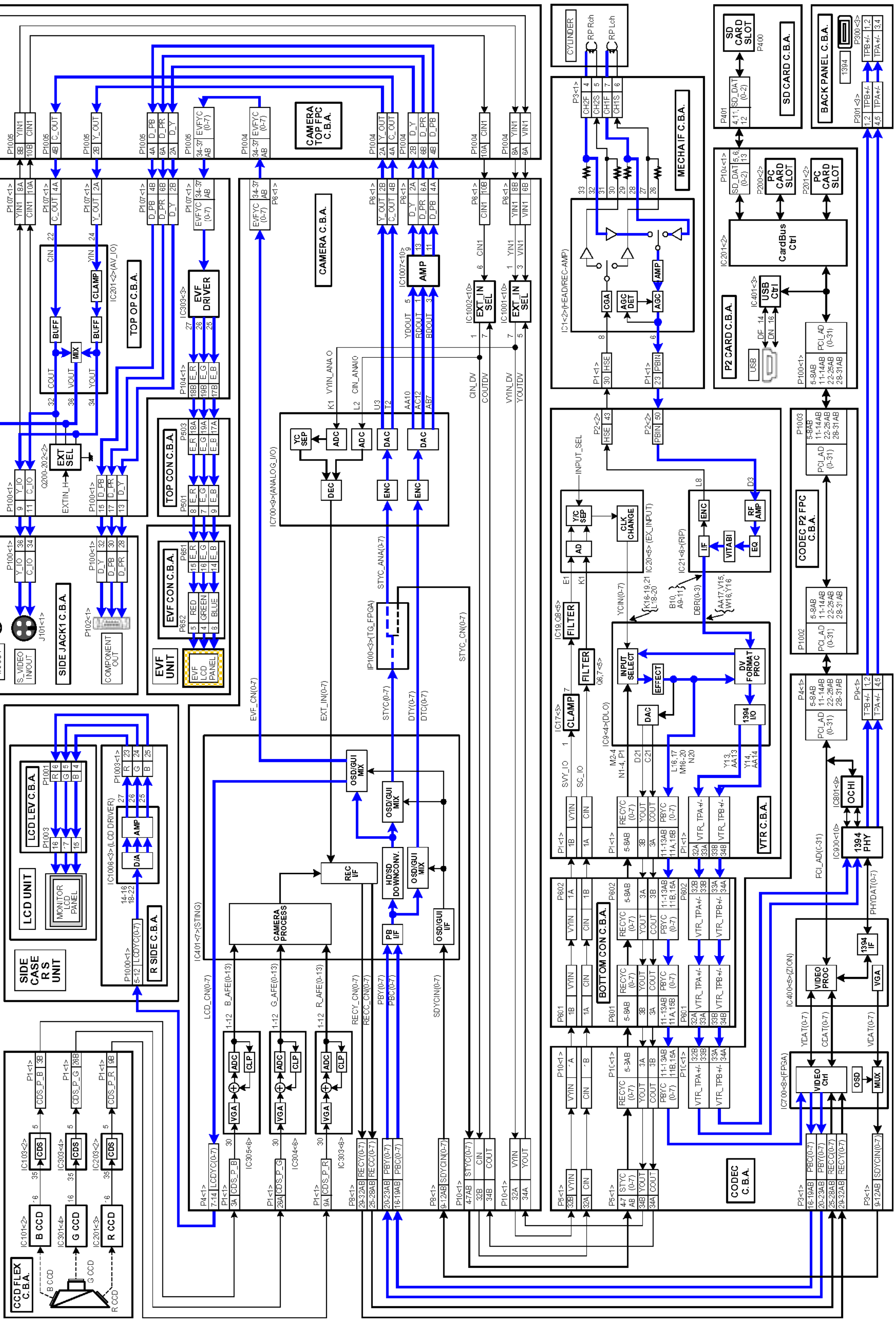
VIDEO BLOCK DIAGRAM (VCR REC: EXT IN)


CCD FLEX C.B.A.
B CCD
G CCD
R CCD
IC101<2>
IC301<4>
IC201<3>
IC103<2>
IC303<4>
IC203<2>
CDS
CDS_P_B
CDS_P_G
CDS_P_R
P1<1>
SIDE CASE R S UNIT
LCD UNIT
MONITOR LCD PANEL
LCD LEV C.B.A.
P1003
P1001
IC1006<3> (LCD DRIVER)
P1000<1>
LCDYC(0-7)
D/A
AMP
P1003<1>
R SIDE C.B.A.
VIDEO IN/OUT
S_VIDEO IN/OUT
J100<1>
J101<1>
SIDE JACK1 C.B.A.
P102<1>
COMPONENT OUT
P100<1>
V_IO
Y_IO
C_IO
D_Y
D_PB
D_PR
EVF UNIT
EVF LCD PANEL
EVF CON C.B.A.
P652
P651
RED
GREEN
BLUE
E_R
E_G
E_B
TOP CON C.B.A.
P501
P503
P104<1>
IC303<3>
EVF DRIVER
Q200-202<2>
EXTIN_H
EXT SEL
COUT
VOUT
YOUT
BUFF
MIX
CLAMP
CIN
YIN
IC201<2>(AV_IO)
TOP OP C.B.A.
P107<1>
VIN1
YIN1
CIN1
C_OUT
Y_OUT
EVFYC (0-7)
P1005
P1004
CAMERA TOP FPC C.B.A.
P4<1>
LCD_CN(0-7)
IC401<7>(STING)
IC305<6>
IC304<6>
IC303<6>
VGA
ADC
CLP
B_AFE(0-13)
G_AFE(0-13)
R_AFE(0-13)
CAMERA PROCESS
EVF_CN(0-7)
EXT_IN(0-7)
REC I/F
OSD/GUI MIX
P8<1>
RECY(0-7)
RECC(0-7)
RECY_CN(0-7)
RECC_CN(0-7)
PBY(0-7)
PBC(0-7)
PB I/F
HD/SD DOWNCONV.
STYC(0-7)
DTY(0-7)
DTC(0-7)
SDYCIN(0-7)
OSD/GUI I/F
IP100<3>(TG_FPGA)
STYC_ANA(0-7)
STYC_CN(0-7)
IC700<9>(ANALOG_I/O)
YC SEP
DEC
ENC
DAC
K1 VYIN_ANA O
L2 CIN_ANAIO
U3
T2
AA10
AC12
AB7
YDOUT
RDOUT
BDOUT
IC1007<10>
CAMERA C.B.A.
P6<1>
P10<1>
STYC(0-7)
CIN_DV
COUTDV
VYIN_DV
YOUTDV
IC1002<10>
IC1001<10>
EXT_IN SEL
P5<1>
VYIN
CIN
RECYC (0-7)
PBYC (0-7)
P601
P602
BOTTOM CON C.B.A.
VTR_TPA+/-
VTR_TPB+/-
CODEC C.B.A.
SVY_IO
SC_IO
IC17<5>
IC19,Q8<5>
FILTER
Q6,7<5>
E1
K1
AD
Y/C SEP
INPUT_SEL
CLK CHANGE
IC20<5> (EX_INPUT)
IC9<4>(DLO)
M2-4
N1-4, P1
D21
C21
L16,17
M16-20
N20
Y13, AA13
Y14, AA14
YCIN(0-7)
K16-19,21
L18-20
INPUT SELECT
EFFECT
DV FORMAT PROC
1394 I/O
B10, A9-11
DBR(0-3)
AA17,V15, W16,Y16
IC21<6>(RP)
I/F
VITABI
EQ
RF AMP
L8
D3
VTR C.B.A.
P2<2>
HSE
PBIN
P1<1>
IC1<2>(HEAD/REC-AMP)
CGA
AGC DET
AGC
P3<1>
CH2F
CH2S
CH1F
CH1S
MECHA IF C.B.A.
CYLINDER
RP Rch
RP Lch
IC700<8>(FPGA)
VIDEO Ctrl
OSD
MUX
P3<1>
YCAT(0-7)
CCAT(0-7)
VCAT(0-7)
IC400<5>(ZION)
VIDEO PROC
VGA
1394 I/F
PHYDAT(0-7)
FCI_AD(C-31)
IC900<10>
1394 PHY
IC801<9>
OCHI
P4<1>
P9<1>
PCI_AD (0-31)
P1002
P1003
CODEC P2 FPC C.B.A.
TPB+/-
TPA+/-
P2 CARD C.B.A.
USB
DF
DN
IC401<3>
USB Ctrl
IC201<2>
CardBus Ctrl
P200<2>
P201<2>
PC CARD SLOT
P10<1>
SD_DAT (0-2)
P401
SD CARD SLOT
P400
SD CARD C.B.A.
BACK PANEL C.B.A.
1394
P301<3>
P300<3>

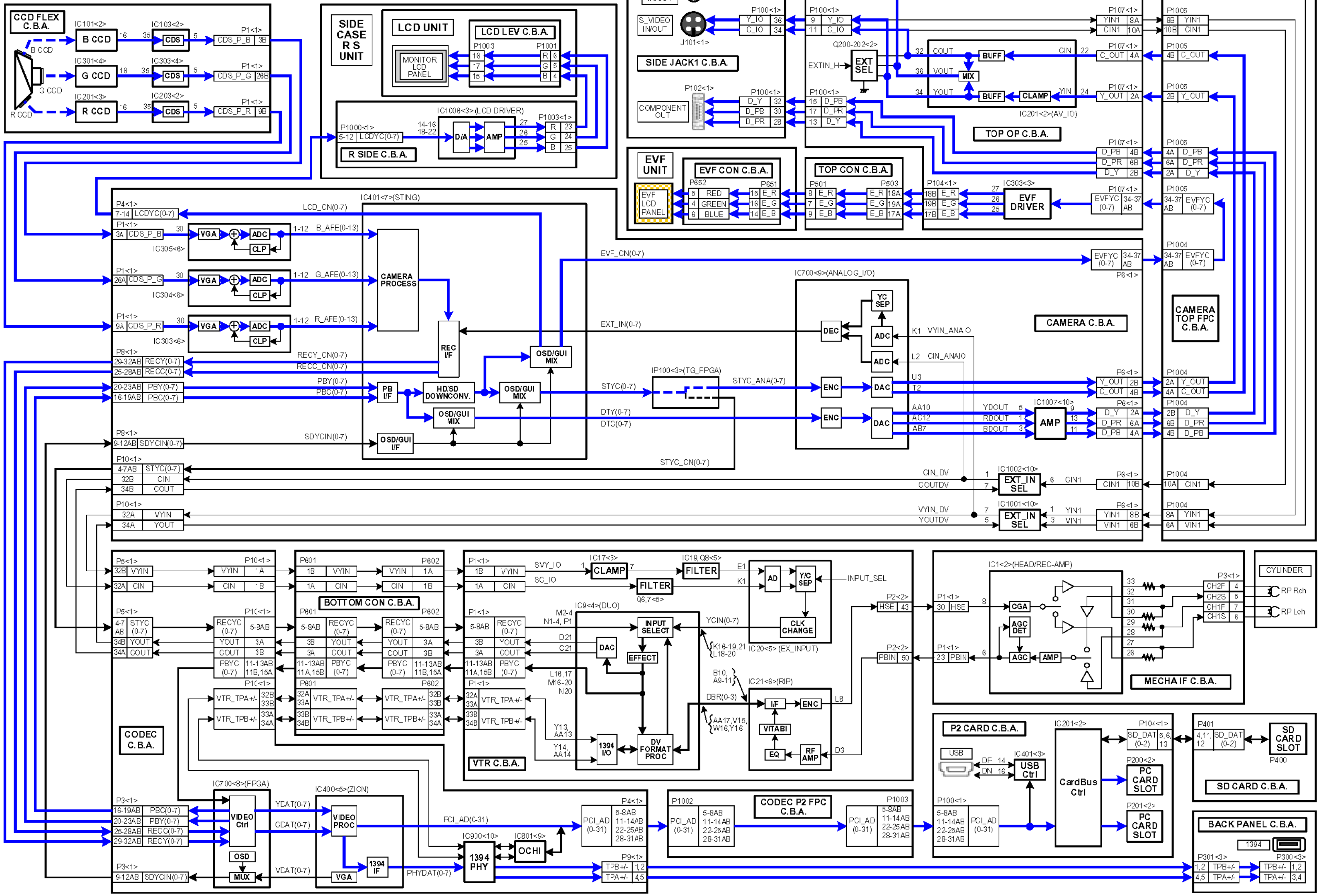
VIDEO BLOCK DIAGRAM (VCR REC: 1394 IN)


CCD FLEX C.B.A.
B CCD
G CCD
R CCD
IC101<2>
IC301<4>
IC201<3>
IC103<2>
IC303<4>
IC203<2>
CDS
CDS_P_B
CDS_P_G
CDS_P_R
SIDE CASE R S UNIT
LCD UNIT
MONITOR LCD PANEL
LCD LEV C.B.A.
R SIDE C.B.A.
IC1006<3> (LCD DRIVER)
D/A
AMP
VGA
ADC
CLP
IC305<6>
IC304<6>
IC303<6>
IC401<7>(STING)
CAMERA PROCESS
REC I/F
HD/SD DOWNCONV.
OSD/GUI MIX
PB I/F
OSD/GUI I/F
VIDEO IN/OUT
S_VIDEO IN/OUT
SIDE JACK1 C.B.A.
COMPONENT OUT
EVF UNIT
EVF LCD PANEL
EVF CON C.B.A.
TOP CON C.B.A.
TOP OP C.B.A.
EVF DRIVER
IC303<3>
IC201<2>(AV_IO)
BUFF
CLAMP
MIX
EXT SEL
Q200-202<2>
CAMERA TOP FPC C.B.A.
CAMERA C.B.A.
IC700<9>(ANALOG_I/O)
Y/C SEP
DEC
ADC
DAC
ENC
AMP
IC1007<10>
IC1002<10>
IC1001<10>
EXT_IN SEL
IP100<3>(TG_FPGA)
CYLINDER
RP Rch
RP Lch
MECHA IF C.B.A.
IC1<2>(HEAD/REC-AMP)
CGA
AGC DET
AGC
SD CARD C.B.A.
SD CARD SLOT
BACK PANEL C.B.A.
1394
P2 CARD C.B.A.
PC CARD SLOT
CardBus Ctrl
USB Ctrl
USB
IC201<2>
IC401<3>
CODEC P2 FPC C.B.A.
FILTER
CLAMP
IC19,Q8<5>
IC17<5>
Q6,7<5>
IC20<5>(EX_INPUT)
CLK CHANGE
AD
IC21<6>(RP)
I/F
VITABI
EQ
RF AMP
INPUT SELECT
EFFECT
DAC
DV FORMAT PROC
1394 I/O
IC9<4>(DLO)
VTR C.B.A.
BOTTOM CON C.B.A.
CODEC C.B.A.
IC700<8>(FPGA)
VIDEO Ctrl
MUX
OSD
IC400<5>(ZION)
VIDEO PROC
1394 IF
VGA
IC900<10>
1394 PHY
IC801<9>
OCHI

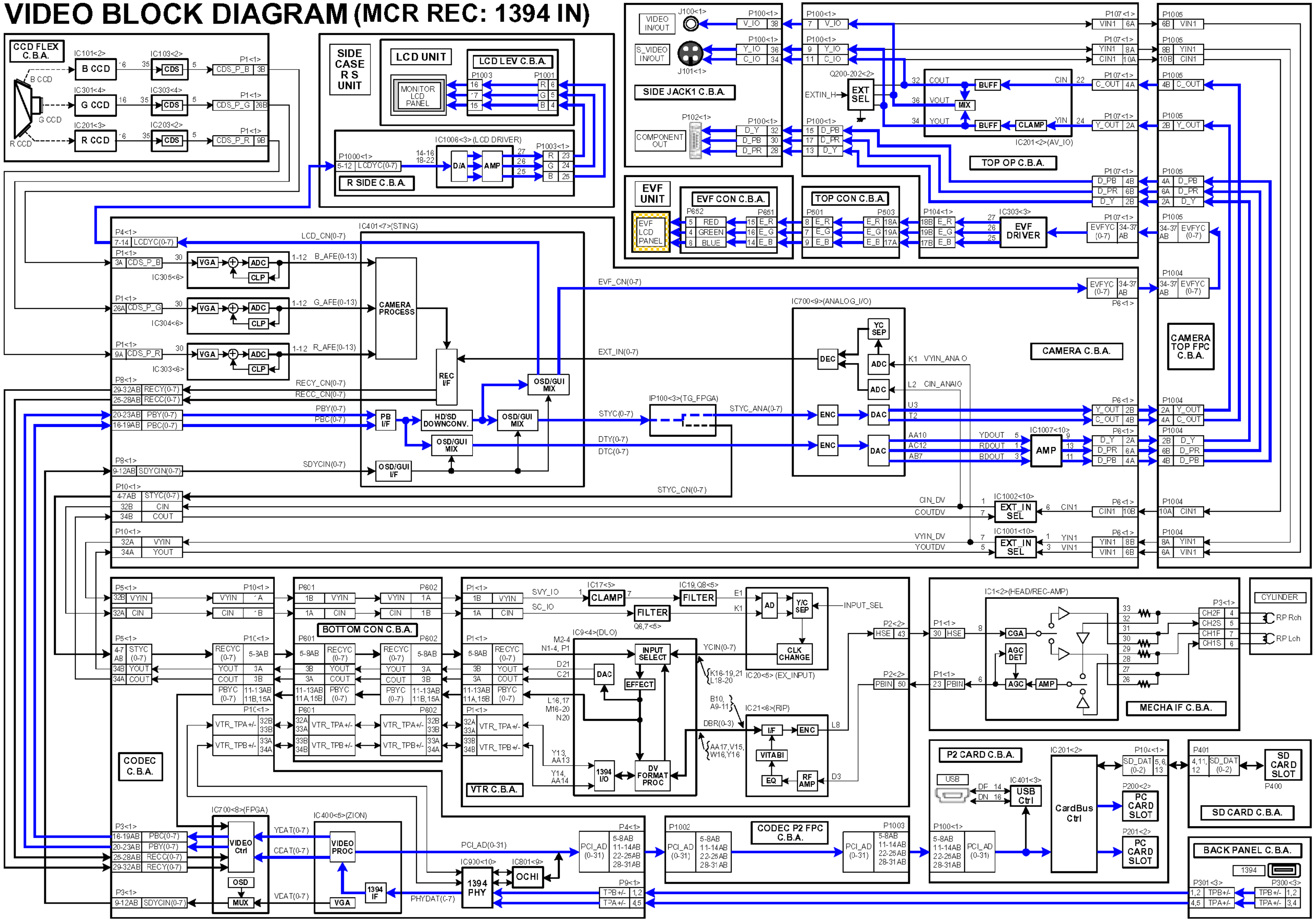
VIDEO BLOCK DIAGRAM (VCR PLAY)


CCD FLEX C.B.A.
B CCD
G CCD
R CCD
IC101<2>
IC301<4>
IC201<3>
CDS
IC103<2>
IC303<4>
IC203<2>
SIDE CASE R S UNIT
LCD UNIT
MONITOR LCD PANEL
LCD LEV C.B.A.
R SIDE C.B.A.
IC1006<3> (LCD DRIVER)
D/A
AMP
SIDE JACK1 C.B.A.
VIDEO IN/OUT
S_VIDEO IN/OUT
COMPONENT OUT
TOP OP C.B.A.
IC201<2>(AV_IO)
BUFF
CLAMP
MIX
EXT SEL
Q200~202<2>
EVF UNIT
EVF LCD PANEL
EVF CON C.B.A.
TOP CON C.B.A.
EVF DRIVER
IC303<3>
CAMERA TOP FPC C.B.A.
CAMERA C.B.A.
IC700<9>(ANALOG_I/O)
YC SEP
ADC
DAC
DEC
ENC
AMP
IC1002<10>
IC1001<10>
EXT_IN SEL
IP100<3>(TG_FPGA)
IC401<7>(STING)
CAMERA PROCESS
REC I/F
PB I/F
HD/SD DOWNCONV.
OSD/GUI MIX
OSD/GUI I/F
IC305<6>
IC304<6>
IC303<6>
VGA
CLP
BOTTOM CON C.B.A.
CODEC C.B.A.
IC700<8>(FPGA)
VIDEO Ctrl
OSD
MUX
IC400<5>(ZION)
VIDEO PROC
1394 I/F
IC900<10>
1394 PHY
IC801<9>
OCHI
VTR C.B.A.
IC17<3>
CLAMP
IC19,Q8<3>
FILTER
IC9<4>(DLO)
INPUT SELECT
EFFECT
DAC
DV FORMAT PROC
1394 I/O
IC20<5>(EX_INPUT)
AD
Y/C SEP
CLK CHANGE
IC21<8>(RP)
I/F
VITABI
ENC
EQ
RF AMP
MECHA IF C.B.A.
IC1<2>(HEAD/REC-AMP)
CGA
AGC DET
AGC
CYLINDER
RP Rch
RP Lch
CODEC P2 FPC C.B.A.
P2 CARD C.B.A.
USB
IC401<3>
USB Ctrl
IC201<2>
CardBus Ctrl
PC CARD SLOT
SD CARD C.B.A.
SD CARD SLOT
BACK PANEL C.B.A.
1394

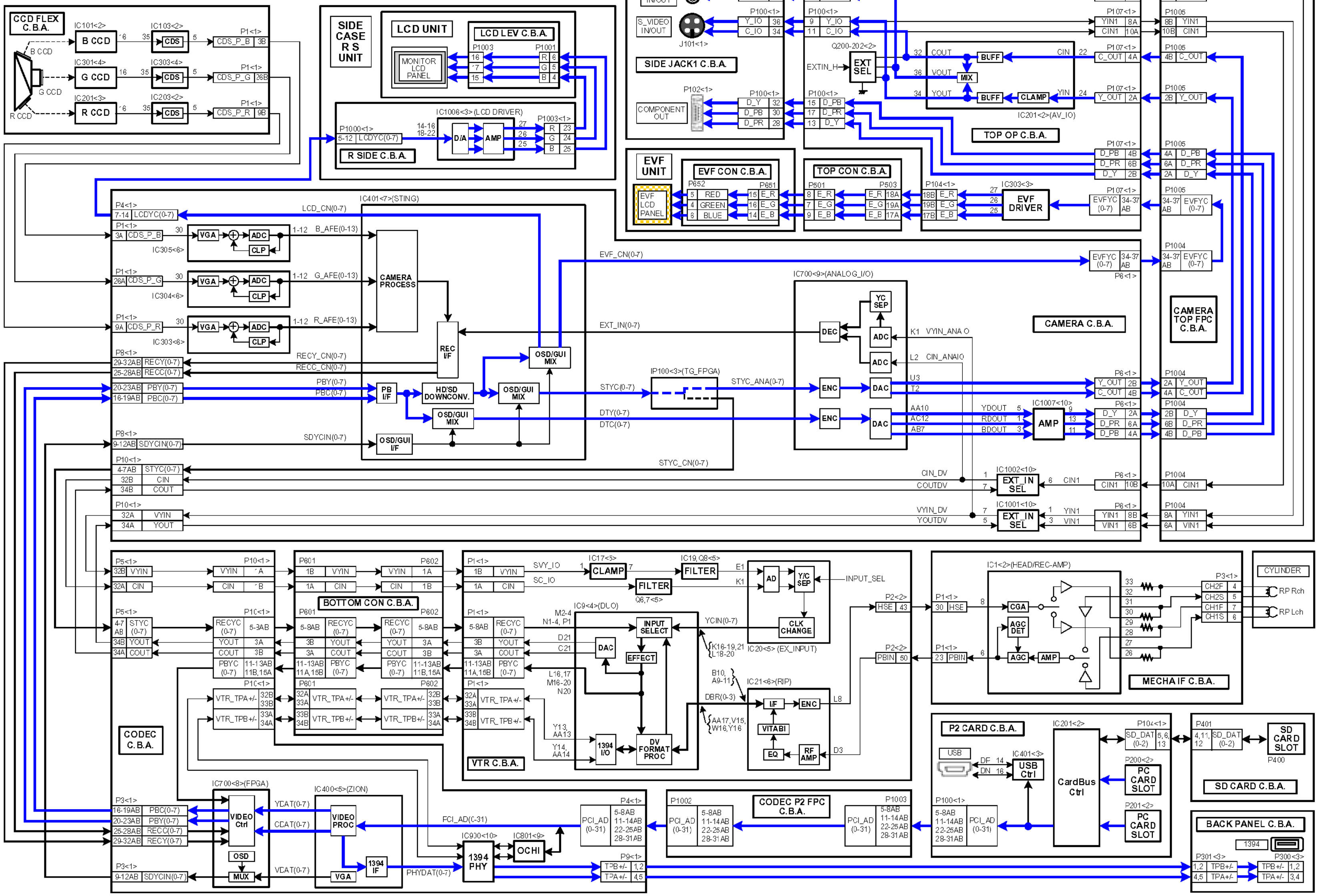
VIDEO BLOCK DIAGRAM (P2-CAMERA REC)


CCD FLEX C.B.A.
B CCD
G CCD
R CCD
IC101<2>
IC301<4>
IC201<3>
IC103<2>
IC303<4>
IC203<2>
CDS
CDS_P_B
CDS_P_G
CDS_P_R
SIDE CASE R S UNIT
LCD UNIT
MONITOR LCD PANEL
LCD LEV C.B.A.
R SIDE C.B.A.
IC1006<3> (LCD DRIVER)
D/A
AMP
VIDEO IN/OUT
S_VIDEO IN/OUT
COMPONENT OUT
SIDE JACK1 C.B.A.
J100<1>
J101<1>
P102<1>
EXT SEL
Q200-202<2>
EXTIN_H
BUFF
MIX
CLAMP
IC201<2>(AV_IO)
TOP OP C.B.A.
EVF UNIT
EVF LCD PANEL
EVF CON C.B.A.
RED
GREEN
BLUE
TOP CON C.B.A.
EVF DRIVER
IC303<3>
CAMERA TOP FPC C.B.A.
IC401<7>(STING)
VGA
ADC
CLP
IC305<6>
IC304<6>
IC303<6>
CAMERA PROCESS
REC I/F
PB I/F
HD/SD DOWNCONV.
OSD/GUI MIX
OSD/GUI I/F
LCD_CN(0-7)
EVF_CN(0-7)
EXT_IN(0-7)
RECY_CN(0-7)
RECC_CN(0-7)
STYC(0-7)
DTY(0-7)
DTC(0-7)
SDYCIN(0-7)
STYC_CN(0-7)
IP100<3>(TG_FPGA)
STYC_ANA(0-7)
IC700<9>(ANALOG_I/O)
YC SEP
DEC
ENC
DAC
CAMERA C.B.A.
IC1007<10>
IC1002<10>
IC1001<10>
EXT_IN SEL
CIN_DV
COUTDV
VYIN_DV
YOUTDV
CODEC C.B.A.
BOTTOM CON C.B.A.
VTR C.B.A.
IC17<3>
IC19,Q8<5>
FILTER
Q6,7<5>
IC9<4>(DLO)
INPUT SELECT
EFFECT
1394 I/O
DV FORMAT PROC
IC20<5> (EX_INPUT)
AD
Y/C SEP
CLK CHANGE
INPUT_SEL
IC21<6>(RP)
I/F
VITABI
EQ
RF AMP
IC1<2>(HEAD/REC-AMP)
CGA
AGC DET
AGC
MECHA IF C.B.A.
CYLINDER
RP Rch
RP Lch
IC700<8>(FPGA)
VIDEO Ctrl
OSD
MUX
IC400<5>(ZION)
VIDEO PROC
1394 I/F
IC930<10>
1394 PHY
IC801<9>
OCHI
FCI_AD(C-31)
PHYDAT(0-7)
YCAT(0-7)
CCAT(0-7)
VCAT(0-7)
CODEC P2 FPC C.B.A.
P2 CARD C.B.A.
USB
IC401<3>
USB Ctrl
IC201<2>
CardBus Ctrl
PC CARD SLOT
SD CARD SLOT
SD CARD C.B.A.
BACK PANEL C.B.A.
1394

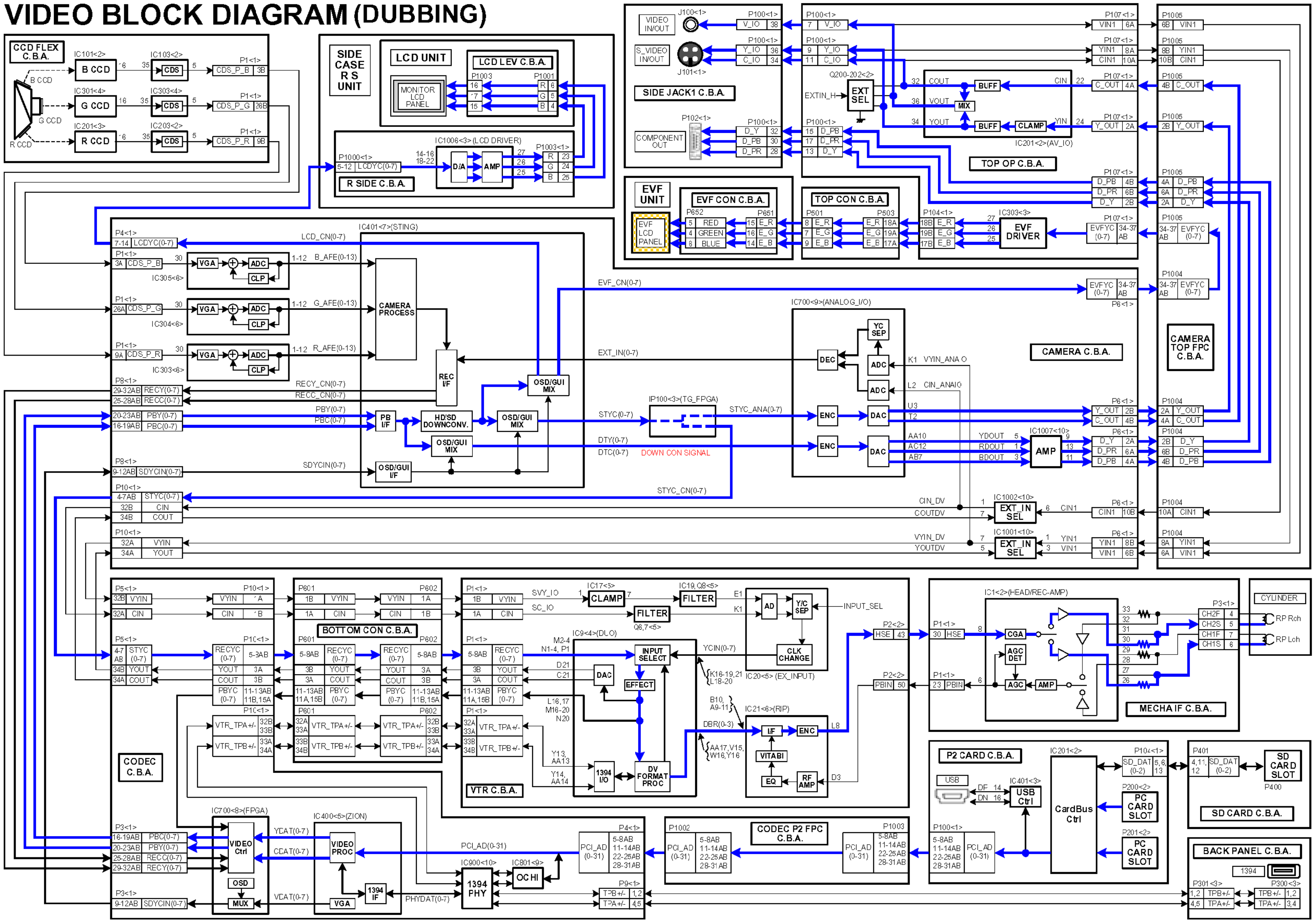
VIDEO BLOCK DIAGRAM (MCR REC: 1394 IN)


CCD FLEX C.B.A.
B CCD
G CCD
R CCD
IC101<2>
IC301<4>
IC201<3>
IC103<2>
IC303<4>
IC203<2>
CDS
CDS_P_B
CDS_P_G
CDS_P_R
P1<1>
SIDE CASE R S UNIT
LCD UNIT
LCD LEV C.B.A.
MONITOR LCD PANEL
P1003
P1001
IC1006<3> (LCD DRIVER)
D/A
AMP
P1000<1>
LCDYC(0-7)
R SIDE C.B.A.
VIDEO IN/OUT
S_VIDEO IN/OUT
J100<1>
J101<1>
SIDE JACK1 C.B.A.
COMPONENT OUT
P102<1>
V_IO
Y_IO
C_IO
D_Y
D_PB
D_PR
P100<1>
Q200-202<2>
EXT SEL
EXTIN_H
COUT
VOUT
YOUT
BUFF
MIX
CLAMP
CIN
YIN
IC201<2>(AV_IO)
TOP OP C.B.A.
P107<1>
VIN1
YIN1
CIN1
C_OUT
Y_OUT
P1005
EVF UNIT
EVF LCD PANEL
EVF CON C.B.A.
P652
P651
RED
GREEN
BLUE
E_R
E_G
E_B
TOP CON C.B.A.
P501
P503
P104<1>
IC303<3>
EVF DRIVER
EVFYC (0-7)
P1004
P6<1>
CAMERA TOP FPC C.B.A.
CAMERA C.B.A.
IC401<7>(STING)
P4<1>
LCD_CN(0-7)
VGA
ADC
CLP
IC305<6>
IC304<6>
IC303<8>
B_AFE(0-13)
G_AFE(0-13)
R_AFE(0-13)
CAMERA PROCESS
REC I/F
OSD/GUI MIX
PB I/F
HD/SD DOWNCONV.
OSD/GUI I/F
P8<1>
RECY(0-7)
RECC(0-7)
PBY(0-7)
PBC(0-7)
SDYCIN(0-7)
RECY_CN(0-7)
RECC_CN(0-7)
EVF_CN(0-7)
EXT_IN(0-7)
STYC(0-7)
DTY(0-7)
DTC(0-7)
IP100<3>(TG_FPGA)
STYC_ANA(0-7)
STYC_CN(0-7)
IC700<9>(ANALOG_I/O)
YC SEP
DEC
ENC
DAC
K1 VYIN_ANA O
L2 CIN_ANAO
U3
T2
AA10
AC12
AB7
YDOUT
RDOUT
BDOUT
IC1007<10>
IC1002<10>
IC1001<10>
EXT_IN SEL
CIN_DV
COUTDV
VYIN_DV
YOUTDV
P10<1>
STYC(0-7)
CIN
COUT
VYIN
YOUT
P5<1>
P601
P602
BOTTOM CON C.B.A.
RECYC (0-7)
PBYC (0-7)
VTR_TPA+/-
VTR_TPB+/-
CODEC C.B.A.
IC17<5>
SVY_IO
SC_IO
IC19,Q8<5>
FILTER
Q6,7<5>
IC9<4>(DLO)
M2-4 N1-4, P1
D21
C21
L16,17 M16-20 N20
Y13, AA13
Y14, AA14
INPUT SELECT
EFFECT
DV FORMAT PROC
1394 I/O
VTR C.B.A.
AD
Y/C SEP
CLK CHANGE
INPUT_SEL
E1
YCIN(0-7)
K16-19,21 L18-20
IC20<5> (EX_INPUT)
B10, A9-11
DBR(0-3)
AA17,V15, W16,Y16
IC21<6>(RP)
I/F
VITABI
EQ
RF AMP
L8
D3
P2<2>
HSE
PBIN
P1<1>
IC1<2>(HEAD/REC-AMP)
CGA
AGC DET
AGC
MECHA IF C.B.A.
P3<1>
CH2F
CH2S
CH1F
CH1S
CYLINDER
RP Rch
RP Lch
IC700<8>(FPGA)
VIDEO Ctrl
OSD
MUX
YCAT(0-7)
CCAT(0-7)
VCAT(0-7)
IC400<5>(ZION)
VIDEO PROC
1394 I/F
PHYDAT(0-7)
PCI_AD(0-31)
IC930<10>
1394 PHY
IC801<9>
OCHI
P9<1>
TPB+/-
TPA+/-
P1002
P1003
CODEC P2 FPC C.B.A.
P2 CARD C.B.A.
USB
DF
DN
IC401<3>
USB Ctrl
IC201<2>
CardBus Ctrl
P100<1>
P104<1>
SD_DAT (0-2)
P200<2>
P201<2>
PC CARD SLOT
P401
P400
SD CARD SLOT
SD CARD C.B.A.
BACK PANEL C.B.A.
1394
P301<3>
P300<3>

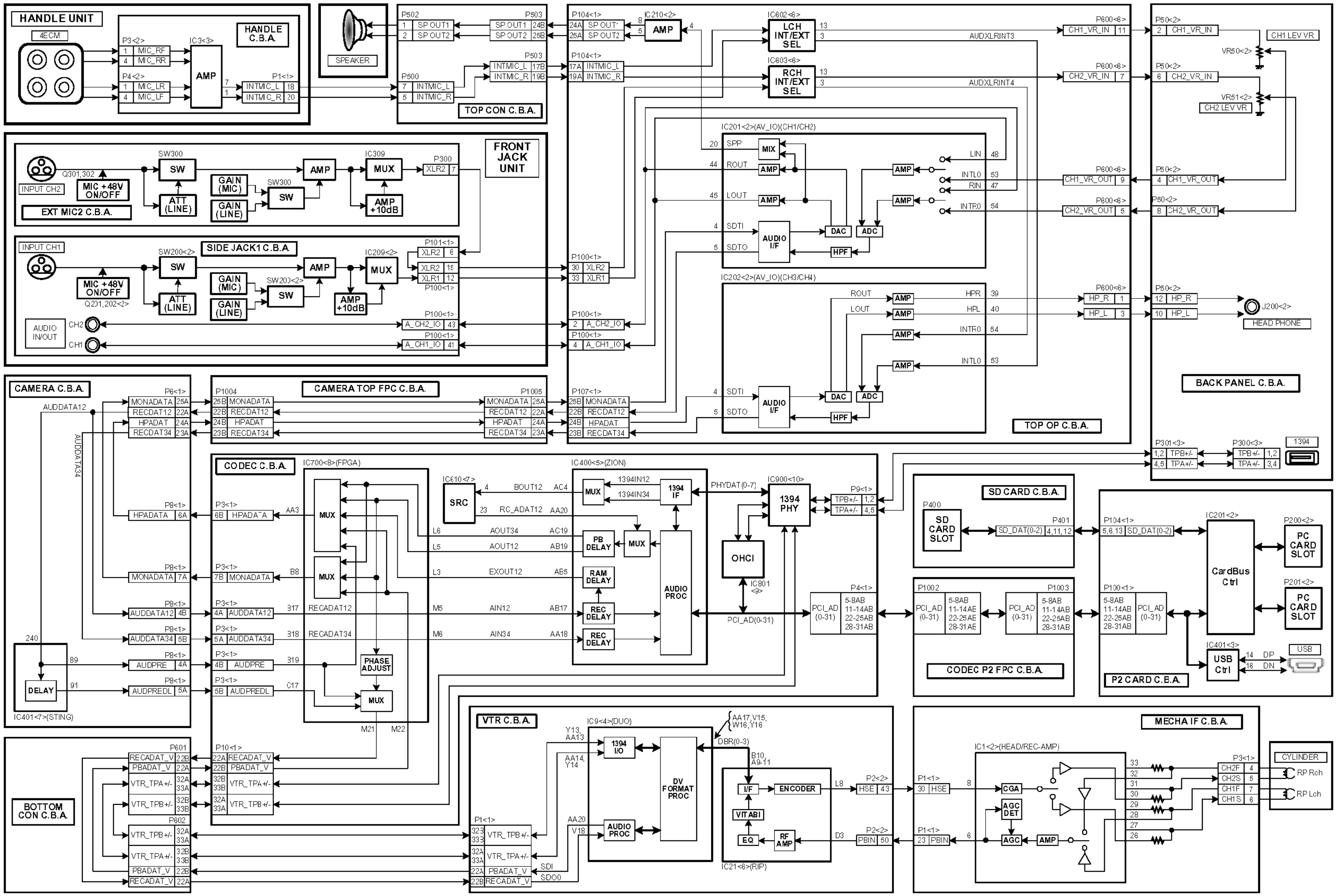
VIDEO BLOCK DIAGRAM (MCR PLAY)


CCD FLEX C.B.A.
B CCD
G CCD
R CCD
CDS
SIDE CASE R S UNIT
LCD UNIT
LCD LEV C.B.A.
MONITOR LCD PANEL
IC1008<3> (LCD DRIVER)
D/A
AMP
R SIDE C.B.A.
VIDEO IN/OUT
S_VIDEO IN/OUT
SIDE JACK1 C.B.A.
COMPONENT OUT
EXT SEL
BUFF
MIX
CLAMP
IC201<2>(AV_IO)
TOP OP C.B.A.
EVF UNIT
EVF LCD PANEL
EVF CON C.B.A.
TOP CON C.B.A.
IC303<3>
EVF DRIVER
IC401<7>(STING)
VGA
ADC
CLP
IC305<6>
IC304<6>
IC303<8>
CAMERA PROCESS
REC I/F
OSD/GUI MIX
PB I/F
HD/SD DOWNCONV.
OSD/GUI I/F
IP100<3>(TG_FPGA)
IC700<9>(ANALOG_I/O)
YC SEP
DEC
ENC
DAC
IC1007<10>
CAMERA C.B.A.
CAMERA TOP FPC C.B.A.
IC1002<10>
IC1001<10>
EXT_IN SEL
CODEC C.B.A.
BOTTOM CON C.B.A.
IC17<3>
IC19,Q8<5>
FILTER
Q6,7<5>
IC9<4>(DLO)
INPUT SELECT
EFFECT
1394 I/O
DV FORMAT PROC
VTR C.B.A.
IC20<5> (EX_INPUT)
CLK CHANGE
IC21<6>(RP)
I/F
VITABI
EQ
RF AMP
IC1<2>(HEAD/REC-AMP)
CGA
AGC DET
AGC
MECHA IF C.B.A.
CYLINDER
RP Rch
RP Lch
P2 CARD C.B.A.
USB
IC401<3>
USB Ctrl
IC201<2>
CardBus Ctrl
PC CARD SLOT
SD CARD SLOT
SD CARD C.B.A.
BACK PANEL C.B.A.
1394
IC700<8>(FPGA)
VIDEO Ctrl
OSD
MUX
IC400<5>(ZION)
VIDEO PROC
1394 I/F
IC930<10>
1394 PHY
IC801<9>
OCHI
CODEC P2 FPC C.B.A.

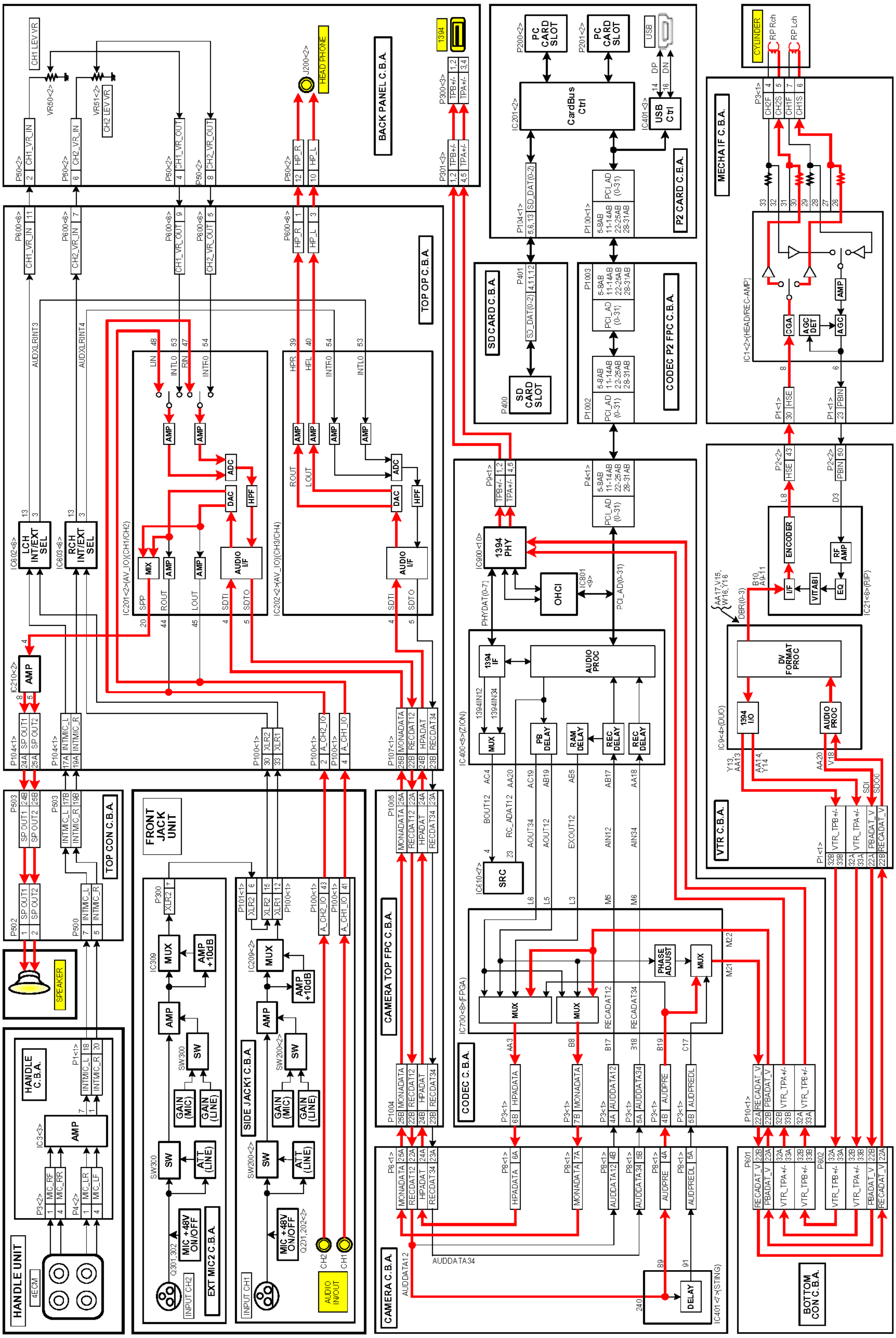
VIDEO BLOCK DIAGRAM (DUBBING)


CCD FLEX C.B.A.
B CCD
G CCD
R CCD
IC101<2>
IC301<4>
IC201<3>
IC103<2>
IC303<4>
IC203<2>
CDS
CDS_P_B
CDS_P_G
CDS_P_R
SIDE CASE R S UNIT
LCD UNIT
MONITOR LCD PANEL
LCD LEV C.B.A.
IC1008<3> (LCD DRIVER)
D/A
AMP
R SIDE C.B.A.
LCDYC(0-7)
VIDEO IN/OUT
S_VIDEO IN/OUT
COMPONENT OUT
SIDE JACK1 C.B.A.
J100<1>
J101<1>
P102<1>
V_IO
Y_IO
C_IO
D_Y
D_PB
D_PR
EXT SEL
Q200-202<2>
EXTIN_H
BUFF
MIX
CLAMP
IC201<2> (AV_IO)
TOP OP C.B.A.
EVF UNIT
EVF LCD PANEL
EVF CON C.B.A.
RED
GREEN
BLUE
TOP CON C.B.A.
EVF DRIVER
IC303<3>
EVFYC (0-7)
CAMERA TOP FPC C.B.A.
CAMERA C.B.A.
IC401<7>(STING)
VGA
ADC
CLP
IC305<6>
IC304<6>
IC303<8>
B_AFE(0-13)
G_AFE(0-13)
R_AFE(0-13)
CAMERA PROCESS
REC I/F
OSD/GUI MIX
PB I/F
HD/SD DOWNCONV.
OSD/GUI I/F
LCD_CN(0-7)
EVF_CN(0-7)
EXT_IN(0-7)
RECY_CN(0-7)
RECC_CN(0-7)
PBY(0-7)
PBC(0-7)
STYC(0-7)
DTY(0-7)
DTC(0-7)
DOWN CON SIGNAL
SDYCIN(0-7)
STYC_CN(0-7)
IP100<3>(TG_FPGA)
STYC_ANA(0-7)
IC700<9>(ANALOG_I/O)
YC SEP
DEC
ENC
DAC
VYIN_ANA O
CIN_ANAO
YDOUT
RDOUT
BDOUT
IC1007<10>
IC1002<10>
IC1001<10>
EXT_IN SEL
CIN_DV
COUTDV
VYIN_DV
YOUTDV
Y_OUT
C_OUT
CIN1
YIN1
VIN1
P1004
P1005
P6<1>
P8<1>
P10<1>
P5<1>
P601
P602
P1<1>
P4<1>
P3<1>
BOTTOM CON C.B.A.
VTR C.B.A.
CODEC C.B.A.
RECYC (0-7)
YOUT
COUT
PBYC (0-7)
VTR_TPA+/-
VTR_TPB+/-
IC17<3>
IC19,Q8<5>
FILTER
Q6,7<5>
IC9<4>(DLO)
INPUT SELECT
EFFECT
1394 I/O
DV FORMAT PROC
IC20<5> (EX_INPUT)
AD
Y/C SEP
CLK CHANGE
INPUT_SEL
YCIN(0-7)
IC21<6>(RP)
I/F
VITABI
EQ
RF AMP
DBR(0-3)
SVY_IO
SC_IO
IC700<8>(FPGA)
VIDEO Ctrl
OSD
MUX
IC400<5>(ZION)
VIDEO PROC
1394 I/F
YCAT(0-7)
CCAT(0-7)
VCAT(0-7)
PHYDAT(0-7)
PCI_AD(0-31)
IC900<10>
IC801<9>
1394 PHY
OC HI
CODEC P2 FPC C.B.A.
P1002
P1003
TPB+/-
TPA+/-
IC1<2>(HEAD/REC-AMP)
CGA
AGC DET
AGC
AMP
HSE
PBIN
MECHA IF C.B.A.
CH2F
CH2S
CH1F
CH1S
CYLINDER
RP Rch
RP Lch
P2 CARD C.B.A.
USB
IC201<2>
IC401<3>
USB Ctrl
CardBus Ctrl
PC CARD SLOT
SD_DAT (0-2)
SD CARD SLOT
SD CARD C.B.A.
P400
P401
BACK PANEL C.B.A.
1394
P301<3>
P300<3>

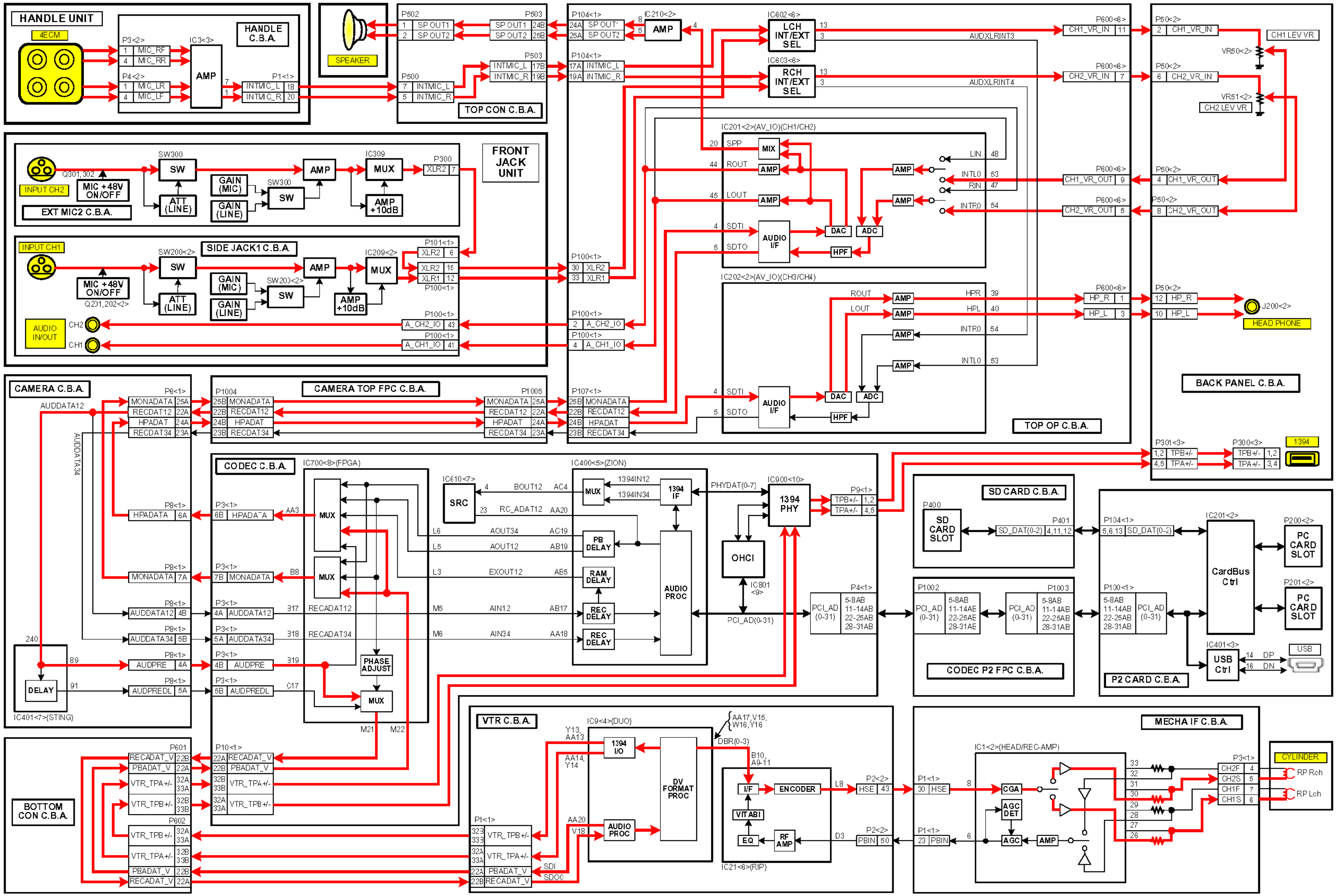
AUDIO BLOCK DIAGRAM


HANDLE UNIT
4ECM
HANDLE C.B.A.
P3<2>
MIC_RF
MIC_RR
P4<2>
MIC_LR
MIC_LF
IC3<3>
AMP
P1<1>
INTMIC_L
INTMIC_R
SPEAKER
P502
SP OUT1
SP OUT2
P503
P500
TOP CON C.B.A.
FRONT JACK UNIT
INPUT CH2
Q301,302
MIC +48V ON/OFF
EXT MIC2 C.B.A.
SW300
SW
ATT (LINE)
GAIN (MIC)
GAIN (LINE)
AMP
IC309
MUX
AMP +10dB
P300
XLR2
INPUT CH1
SIDE JACK1 C.B.A.
SW200<2>
SW203<2>
Q231,202<2>
IC209<2>
P101<1>
XLR1
P100<1>
A_CH2_IO
A_CH1_IO
AUDIO IN/OUT
CH2
CH1
P104<1>
IC210<2>
IC602<6>
LCH INT/EXT SEL
IC603<6>
RCH INT/EXT SEL
AUDXLRINT3
AUDXLRINT4
P600<6>
CH1_VR_IN
CH2_VR_IN
CH1_VR_OUT
CH2_VR_OUT
HP_R
HP_L
IC201<2>(AV_IO)(CH1/CH2)
SPP
ROUT
LOUT
SDTI
SDTO
MIX
AUDIO I/F
DAC
ADC
HPF
LIN
INTL0
RIN
INTR0
IC202<2>(AV_IO)(CH3/CH4)
HPR
HPL
TOP OP C.B.A.
P50<2>
CH1 LEV VR
VR50<2>
VR51<2>
CH2 LEV VR
J200<2>
HEAD PHONE
BACK PANEL C.B.A.
P301<3>
P300<3>
TPB+/-
TPA+/-
1394
CAMERA C.B.A.
P6<1>
MONADATA
RECDAT12
HPADAT
RECDAT34
AUDDATA12
AUDDATA34
CAMERA TOP FPC C.B.A.
P1004
P1005
P107<1>
P8<1>
HPADATA
AUDPRE
AUDPREDL
DELAY
IC401<7>(STING)
CODEC C.B.A.
IC700<8>(FPGA)
P3<1>
HPADA~A
PHASE ADJUST
MUX
M21
M22
IC610<7>
SRC
BOUT12
RC_ADAT12
AOUT34
AOUT12
EXOUT12
AIN12
AIN34
IC400<5>(ZION)
1394IN12
1394IN34
1394 IF
PB DELAY
RAM DELAY
REC DELAY
AUDIO PROC
PHYDAT(0-7)
IC900<10>
1394 PHY
OHCI
IC801 <9>
PCI_AD(0-31)
P9<1>
P4<1>
PCI_AD (0-31)
SD CARD C.B.A.
P400
SD CARD SLOT
P401
SD_DAT(0-2)
CODEC P2 FPC C.B.A.
P1002
P1003
P2 CARD C.B.A.
P104<1>
P100<1>
IC201<2>
CardBus Ctrl
P200<2>
P201<2>
PC CARD SLOT
IC401<3>
USB Ctrl
DP
DN
USB
BOTTOM CON C.B.A.
P601
P602
RECADAT_V
PBADAT_V
VTR_TPA+/-
VTR_TPB+/-
P10<1>
VTR C.B.A.
IC9<4>(DUO)
1394 I/O
DV FORMAT PROC
AUDIO PROC
P1<1>
SDI
SDO0
DBR(0-3)
IC21<8>(RIP)
I/F
ENCODER
VIT ABI
EQ
RF AMP
P2<2>
HSE
PBIN
MECHA IF C.B.A.
IC1<2>(HEAD/REC-AMP)
CGA
AGC DET
AGC
P3<1>
CH2F
CH2S
CH1F
CH1S
CYLINDER
RP Rch
RP Lch

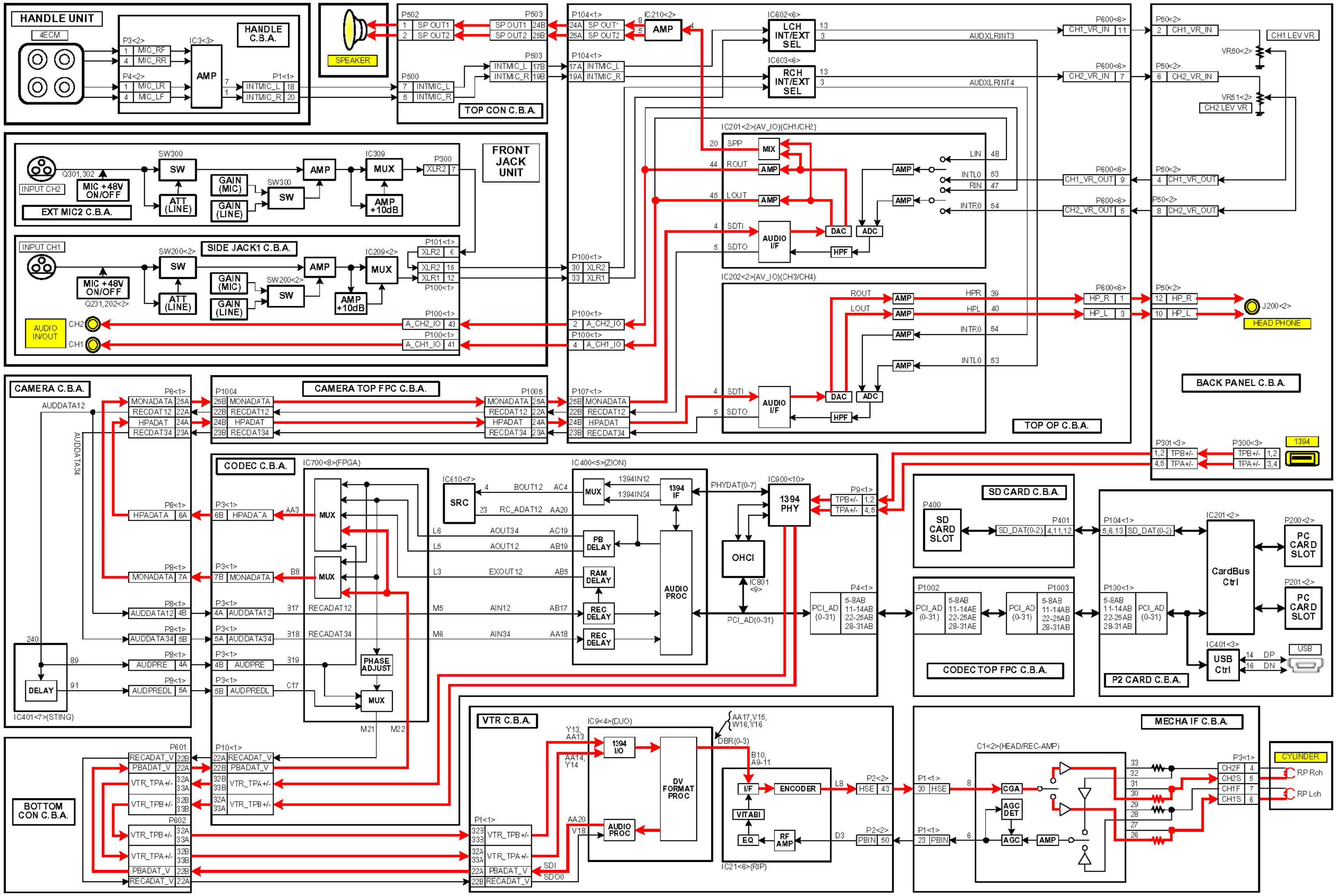
AUDIO BLOCK DIAGRAM (TAPE-CAMERA REC: LINE IN)


HANDLE UNIT
HANDLE C.B.A.
AMP
SPEAKER
TOP CON C.B.A.
FRONT JACK UNIT
EXT MIC2 C.B.A.
SIDE JACK1 C.B.A.
MIC +48V ON/OFF
GAIN (MIC)
GAIN (LINE)
ATT (LINE)
SW
MUX
AMP +10dB
AUDIO IN/OUT
CH1
CH2
INPUT CH1
INPUT CH2
TOP OP C.B.A.
LCH INT/EXT SEL
RCH INT/EXT SEL
MIX
ADC
DAC
HPF
AUDIO I/F
BACK PANEL C.B.A.
CH1 LEV VR
CH2 LEV VR
HEAD PHONE
1394
CAMERA TOP FPC C.B.A.
CAMERA C.B.A.
DELAY
CODEC C.B.A.
SRC
PHASE ADJUST
1394 IF
AUDIO PROC
PB DELAY
RAM DELAY
REC DELAY
1394 PHY
OHCI
SD CARD C.B.A.
SD CARD SLOT
CODEC P2 FPC C.B.A.
P2 CARD C.B.A.
PC CARD SLOT
CardBus Ctrl
USB Ctrl
USB
MECHA IF C.B.A.
CYLINDER
RP Rch
RP Lch
CGA
AGC DET
AGC
VTR C.B.A.
DV FORMAT PROC
1394 I/O
ENCODER
I/F
VITABI
EQ
RF AMP
BOTTOM CON C.B.A.

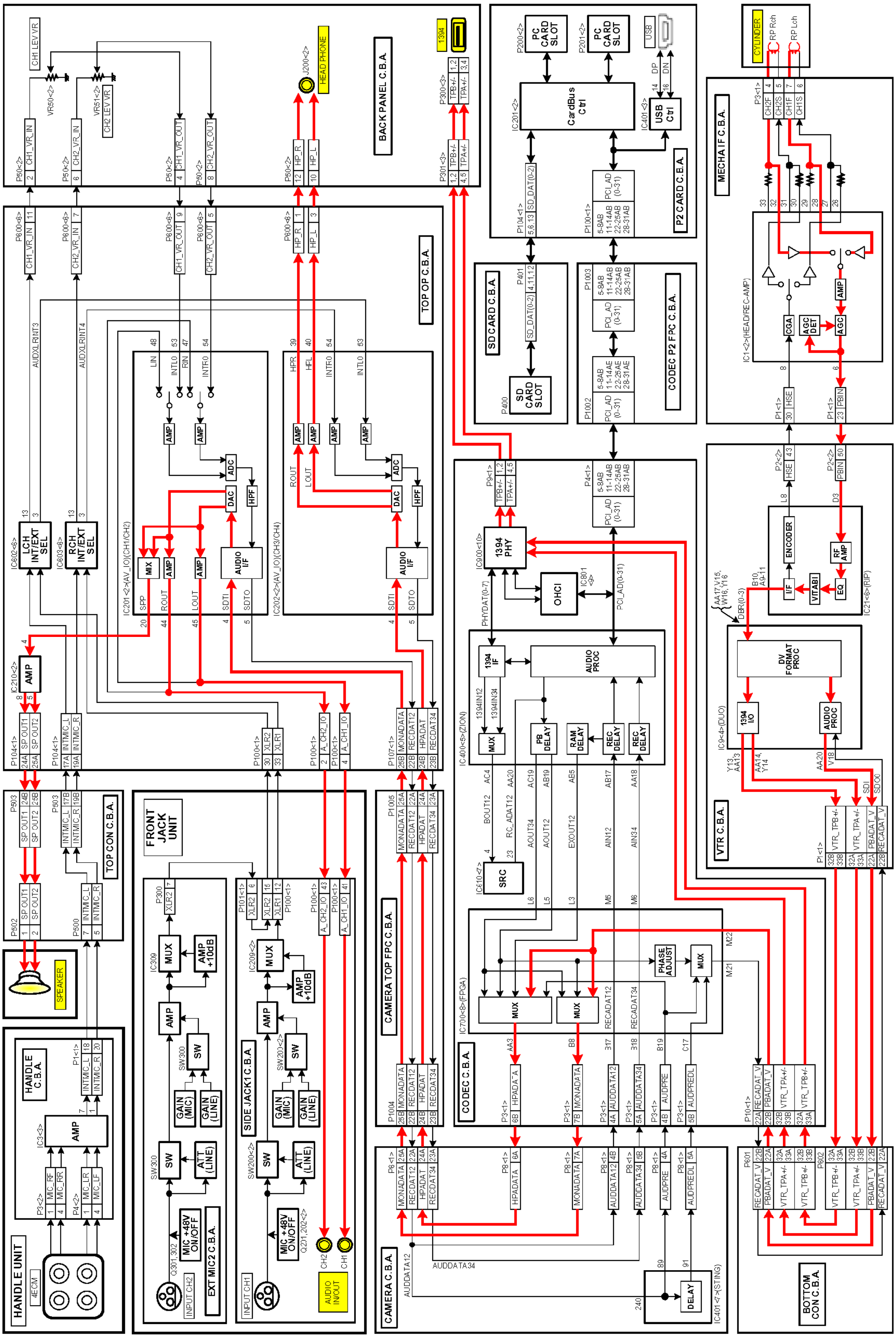
AUDIO BLOCK DIAGRAM (TAPE-CAMERA REC: MIC IN)


HANDLE UNIT
4ECM
HANDLE C.B.A.
AMP
SPEAKER
TOP CON C.B.A.
FRONT JACK UNIT
EXT MIC2 C.B.A.
SIDE JACK1 C.B.A.
INPUT CH2
INPUT CH1
MIC +48V ON/OFF
SW
ATT (LINE)
GAIN (MIC)
GAIN (LINE)
MUX
AMP +10dB
AUDIO IN/OUT
LCH INT/EXT SEL
RCH INT/EXT SEL
IC201<2>(AV_IO)(CH1/CH2)
IC202<2>(AV_IO)(CH3/CH4)
MIX
DAC
ADC
HPF
AUDIO I/F
TOP OP C.B.A.
CH1 LEV VR
CH2 LEV VR
HEAD PHONE
BACK PANEL C.B.A.
1394
CAMERA C.B.A.
CAMERA TOP FPC C.B.A.
DELAY
IC401<7>(STING)
CODEC C.B.A.
IC700<8>(FPGA)
PHASE ADJUST
SRC
IC400<5>(ZION)
1394 IF
PB DELAY
RAM DELAY
REC DELAY
AUDIO PROC
1394 PHY
OHCI
SD CARD C.B.A.
SD CARD SLOT
CODEC P2 FPC C.B.A.
P2 CARD C.B.A.
CardBus Ctrl
PC CARD SLOT
USB Ctrl
USB
BOTTOM CON C.B.A.
VTR C.B.A.
IC9<4>(DUO)
1394 I/O
DV FORMAT PROC
ENCODER
VIT ABI
EQ
RF AMP
IC21<8>(RIP)
MECHA IF C.B.A.
IC1<2>(HEAD/REC-AMP)
CGA
AGC DET
AGC
CYLINDER
RP Rch
RP Lch

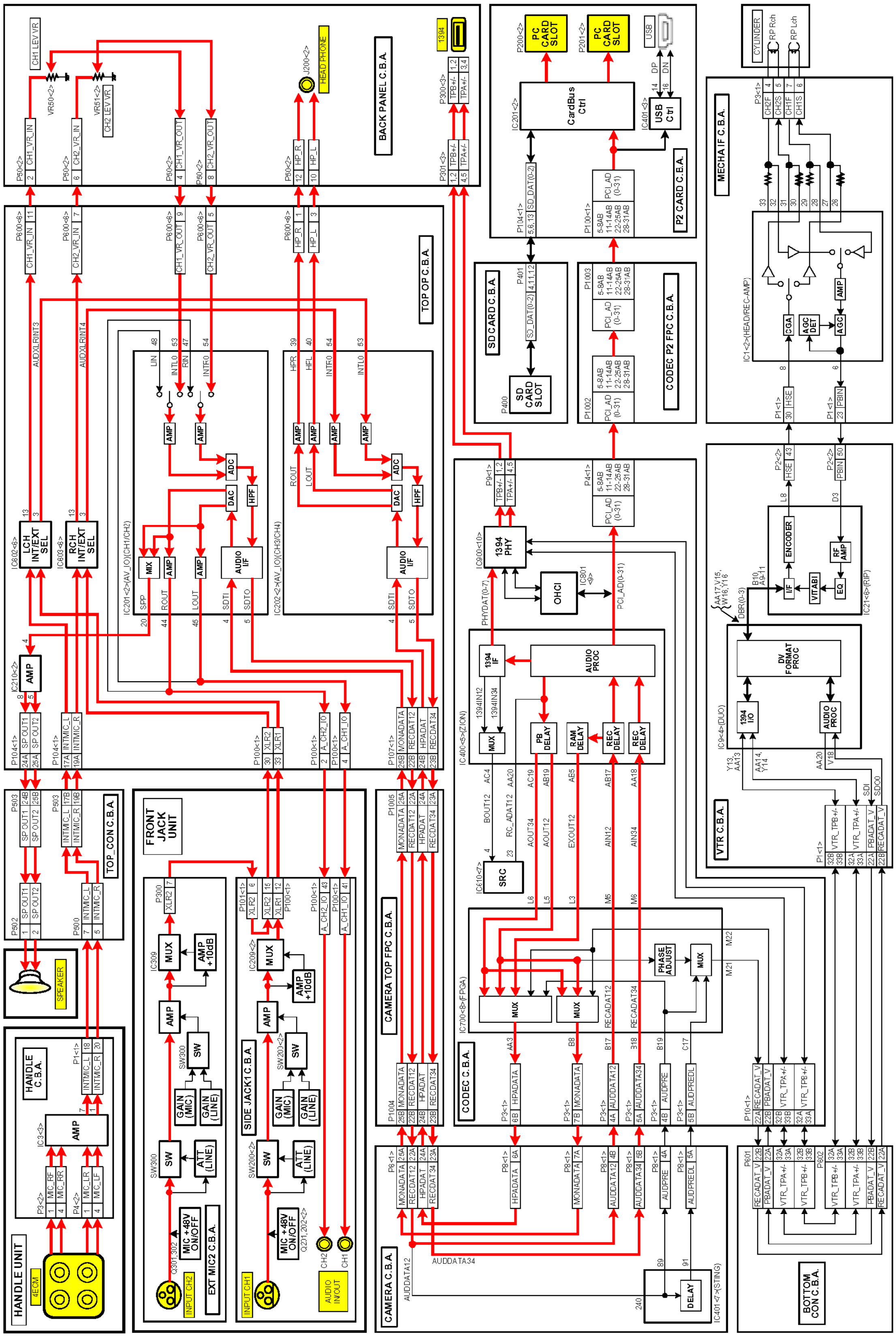
AUDIO BLOCK DIAGRAM (VCR REC: 1394 IN)


HANDLE UNIT
4ECM
HANDLE C.B.A.
IC3<3>
AMP
SPEAKER
TOP CON C.B.A.
FRONT JACK UNIT
EXT MIC2 C.B.A.
SIDE JACK1 C.B.A.
INPUT CH2
INPUT CH1
MIC +48V ON/OFF
SW
ATT (LINE)
GAIN (MIC)
GAIN (LINE)
AMP
MUX
AMP +10dB
AUDIO IN/OUT
CH2
CH1
IC210<2>
IC602<6>
LCH INT/EXT SEL
IC603<6>
RCH INT/EXT SEL
IC201<2>(AV_IO)(CH1/CH2)
IC202<2>(AV_IO)(CH3/CH4)
MIX
DAC
ADC
HPF
AUDIO I/F
TOP OP C.B.A.
CH1 LEV VR
CH2 LEV VR
VR50<2>
VR51<2>
J200<2>
HEAD PHONE
BACK PANEL C.B.A.
1394
CAMERA C.B.A.
CAMERA TOP FPC C.B.A.
CODEC C.B.A.
IC700<8>(FPGA)
IC610<7>
SRC
IC400<5>(ZION)
PB DELAY
RAM DELAY
REC DELAY
AUDIO PROC
1394 IF
IC900<10>
1394 PHY
OHCI
IC801<9>
PHASE ADJUST
DELAY
IC401<7>(STING)
SD CARD C.B.A.
SD CARD SLOT
CODEC TOP FPC C.B.A.
IC201<2>
CardBus Ctrl
PC CARD SLOT
IC401<3>
USB Ctrl
USB
P2 CARD C.B.A.
BOTTOM CON C.B.A.
VTR C.B.A.
IC9<4>(DUO)
1394 I/O
DV FORMAT PROC
IC21<6>(RIP)
I/F
ENCODER
VITABI
EQ
RF AMP
MECHA IF C.B.A.
C1<2>(HEAD/REC-AMP)
CGA
AGC DET
AGC
CYLINDER
RP Rch
RP Lch
MONADATA
RECDAT12
HPADAT
RECDAT34
AUDDATA12
AUDDATA34
AUDPRE
AUDPREDL
RECADAT_V
PBADAT_V
VTR_TPA+/-
VTR_TPB+/-
TPB+/-
TPA+/-
PCI_AD(0-31)
HSE
PBIN

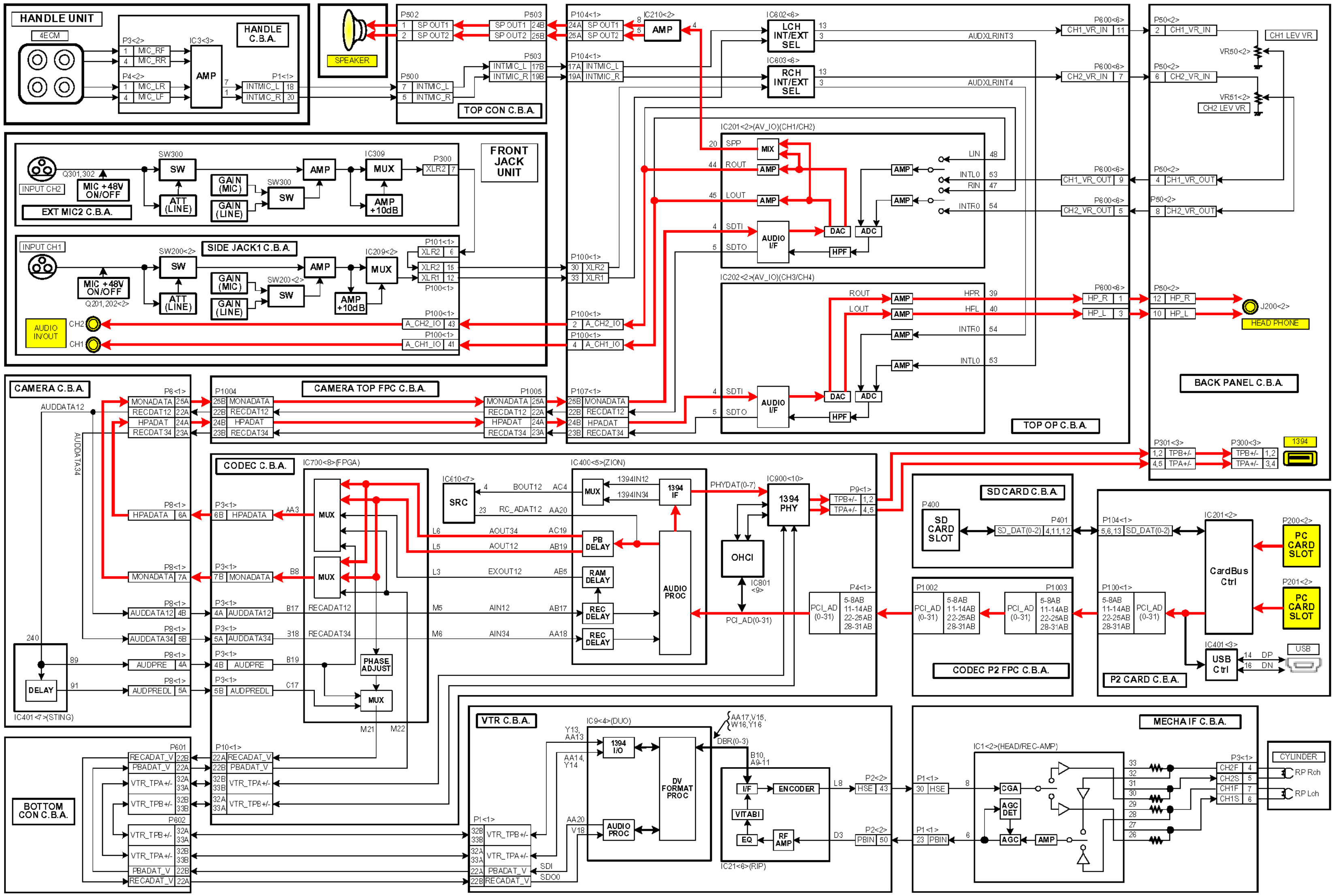
AUDIO BLOCK DIAGRAM (VCR PLAY)


HANDLE UNIT
4ECM
HANDLE C.B.A.
AMP
IC3<3>
SPEAKER
TOP CON C.B.A.
FRONT JACK UNIT
EXT MIC2 C.B.A.
SIDE JACK1 C.B.A.
INPUT CH2
INPUT CH1
MIC +48V ON/OFF
GAIN (MIC)
GAIN (LINE)
ATT (LINE)
SW
MUX
AMP +10dB
AUDIO IN/OUT
CH2
CH1
CAMERA TOP FPC C.B.A.
CAMERA C.B.A.
DELAY
IC401<7>(STING)
CODEC C.B.A.
IC700<8>(FPGA)
MUX
PHASE ADJUST
SRC
IC610<7>
IC400<8>(ZION)
1394 IF
AUDIO PROC
PB DELAY
RAM DELAY
REC DELAY
1394 PHY
IC900<10>
OHCI
IC801<9>
TOP OP C.B.A.
LCH INT/EXT SEL
RCH INT/EXT SEL
IC602<6>
IC603<6>
IC210<2>
IC201<2>(AV_IO)(CH1/CH2)
IC202<2>(AV_IO)(CH3/CH4)
MIX
ADC
DAC
HPF
AUDIO I/F
BACK PANEL C.B.A.
CH1 LEV VR
CH2 LEV VR
VR50<2>
VR51<2>
HEAD PHONE
J200<2>
1394
SD CARD C.B.A.
SD CARD SLOT
CODEC P2 FPC C.B.A.
P2 CARD C.B.A.
PC CARD SLOT
CardBus Ctrl
IC201<2>
USB Ctrl
IC401<3>
USB
VTR C.B.A.
IC9<4>(DUO)
DV FORMAT PROC
1394 I/O
AUDIO PROC
IC21<6>(RIP)
ENCODER
I/F
VITABI
EQ
RF AMP
MECHA I/F C.B.A.
IC1<2>(HEAD/REC-AMP)
CGA
AGC DET
AGC
AMP
CYLINDER
RP Rch
RP Lch
BOTTOM CON C.B.A.

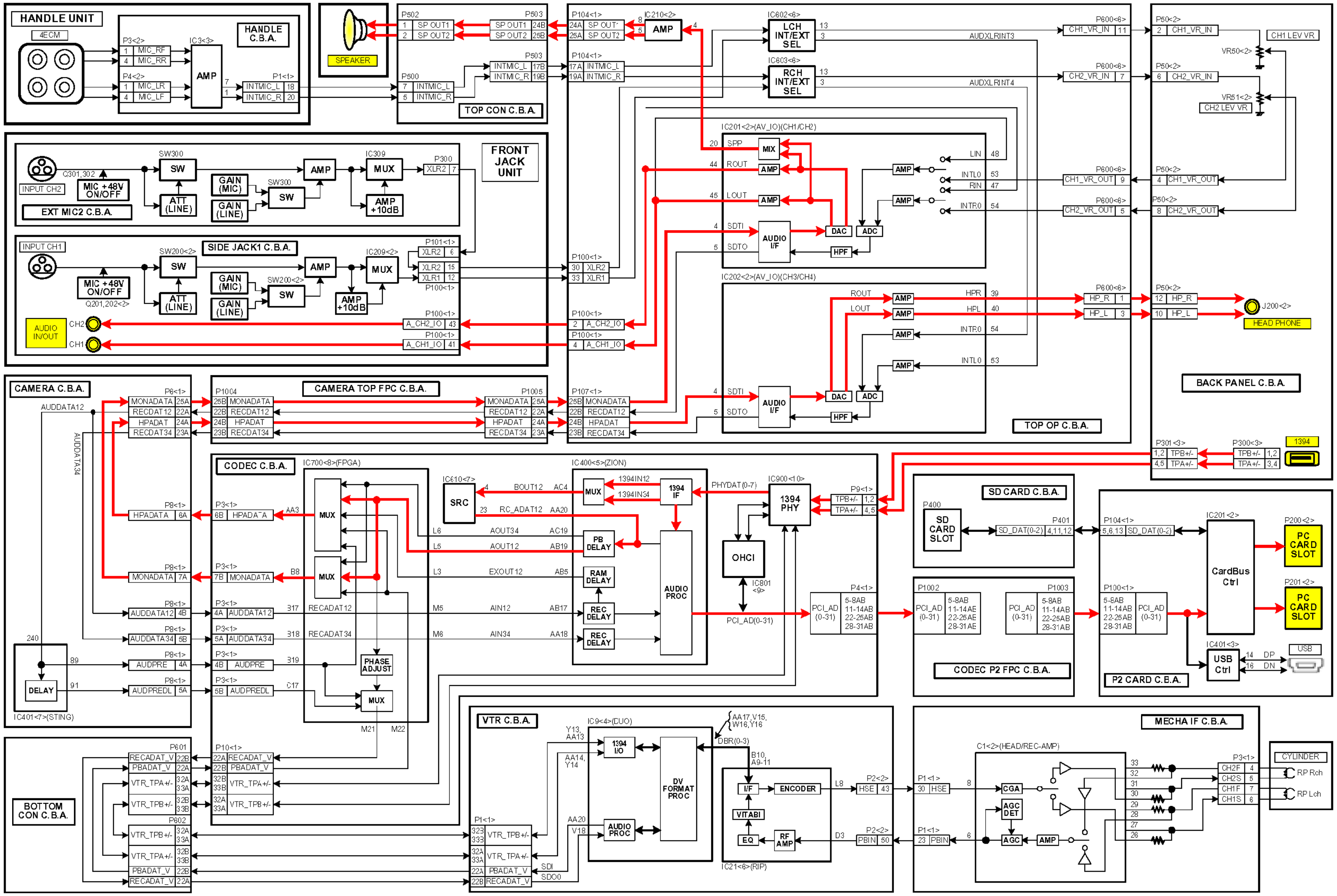
AUDIO BLOCK DIAGRAM (P2-CAMERA REC: MIC IN)


HANDLE UNIT
4ECM
HANDLE C.B.A.
AMP
SPEAKER
TOP_CON C.B.A.
FRONT JACK UNIT
EXT MIC2 C.B.A.
INPUT CH2
SIDE JACK1 C.B.A.
INPUT CH1
MIC +48V ON/OFF
SW
ATT (LINE)
GAIN (MIC)
GAIN (LINE)
MUX
AMP +10dB
AUDIO IN/OUT
CH2
CH1
CAMERA C.B.A.
DELAY
CAMERA TOP FPC C.B.A.
CODEC C.B.A.
SRC
PB DELAY
RAM DELAY
REC DELAY
AUDIO PROC
1394 IF
PHASE ADJUST
1394 PHY
OHCI
TOP OP C.B.A.
LCH INT/EXT SEL
RCH INT/EXT SEL
MIX
ADC
DAC
HPF
AUDIO I/F
BACK PANEL C.B.A.
CH1 LEV VR
CH2 LEV VR
HEAD PHONE
1394
SD CARD C.B.A.
SD CARD SLOT
CODEC P2 FPC C.B.A.
P2 CARD C.B.A.
CardBus Ctrl
PC CARD SLOT
USB Ctrl
USB
VTR C.B.A.
DV FORMAT PROC
1394 I/O
ENCODER
RF AMP
VITABI
EQ
I/F
MECHA IF C.B.A.
CGA
AGC DET
AGC
CYLINDER
RP Rch
RP Lch
BOTTOM CON C.B.A.

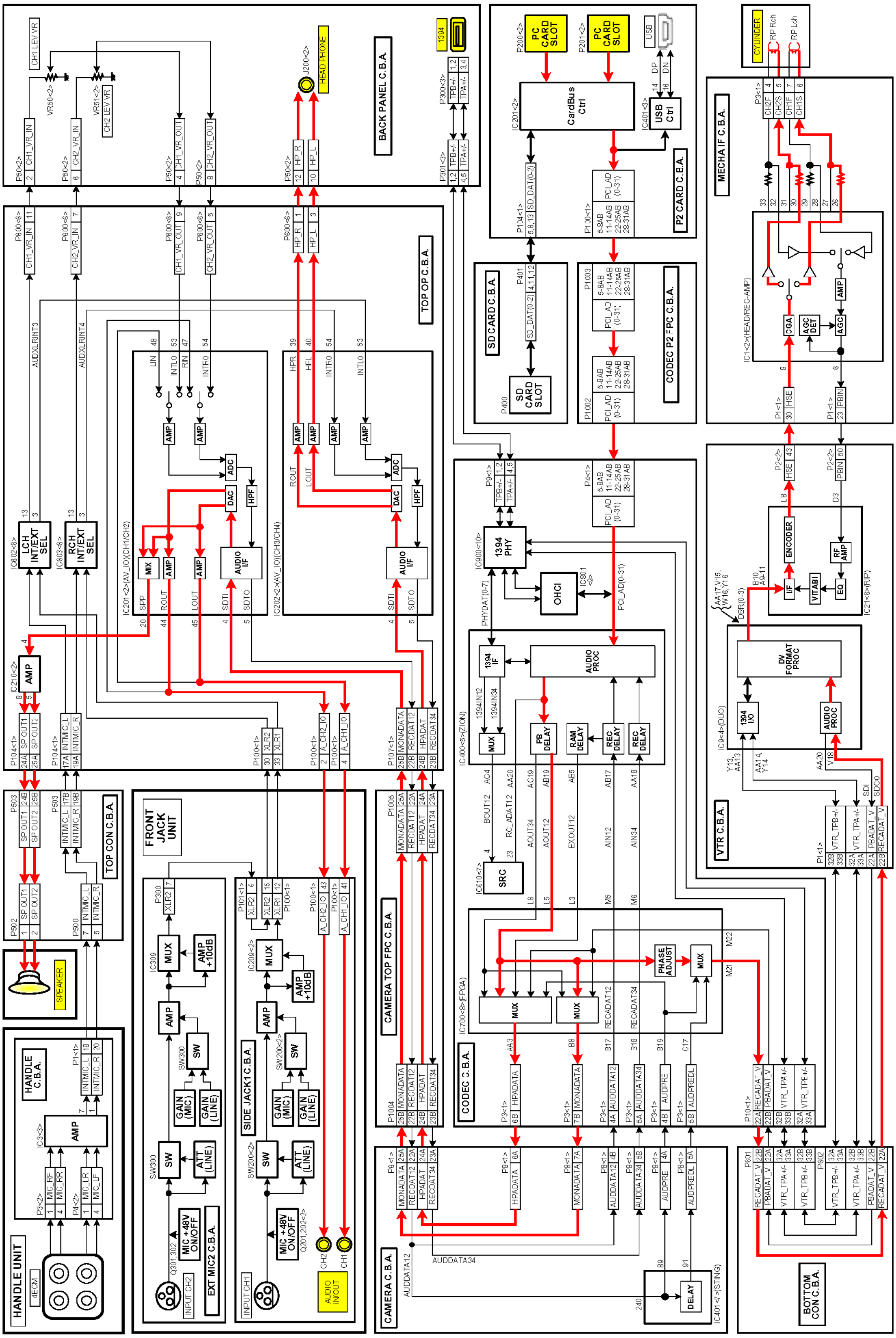
AUDIO BLOCK DIAGRAM (MCR PLAY)


HANDLE UNIT
4ECM
HANDLE C.B.A.
IC3<3>
AMP
SPEAKER
P502
P503
P500
TOP CON C.B.A.
P104<1>
IC210<2>
AMP
IC602<6>
LCH INT/EXT SEL
IC603<6>
RCH INT/EXT SEL
AUDXLRINT3
AUDXLRINT4
CH1 LEV VR
VR50<2>
VR51<2>
CH2 LEV VR
FRONT JACK UNIT
INPUT CH2
MIC +48V ON/OFF
Q301,302
SW300
SW
ATT (LINE)
GAIN (MIC)
GAIN (LINE)
AMP
IC309
MUX
AMP +10dB
P300
EXT MIC2 C.B.A.
INPUT CH1
SIDE JACK1 C.B.A.
SW200<2>
IC209<2>
Q201,202<2>
AUDIO IN/OUT
CH2
CH1
IC201<2>(AV_IO)(CH1/CH2)
MIX
DAC
ADC
HPF
AUDIO I/F
IC202<2>(AV_IO)(CH3/CH4)
J200<2>
HEAD PHONE
BACK PANEL C.B.A.
TOP OP C.B.A.
1394
CAMERA C.B.A.
AUDDATA12
AUDDATA34
CAMERA TOP FPC C.B.A.
P1004
P1005
P107<1>
CODEC C.B.A.
IC700<8>(FPGA)
MUX
PHASE ADJUST
IC610<7>
SRC
IC400<5>(ZION)
1394 IF
PB DELAY
RAM DELAY
REC DELAY
AUDIO PROC
IC900<10>
1394 PHY
OHCI
IC801<9>
PHYDAT(0-7)
PCI_AD(0-31)
SD CARD C.B.A.
SD CARD SLOT
CODEC P2 FPC C.B.A.
IC201<2>
CardBus Ctrl
PC CARD SLOT
IC401<3>
USB Ctrl
USB
P2 CARD C.B.A.
DELAY
IC401<7>(STING)
BOTTOM CON C.B.A.
VTR C.B.A.
IC9<4>(DUO)
1394 I/O
DV FORMAT PROC
AUDIO PROC
I/F
ENCODER
VITABI
EQ
RF AMP
IC21<6>(RIP)
MECHA IF C.B.A.
IC1<2>(HEAD/REC-AMP)
CGA
AGC DET
AGC
AMP
CYLINDER
RP Rch
RP Lch

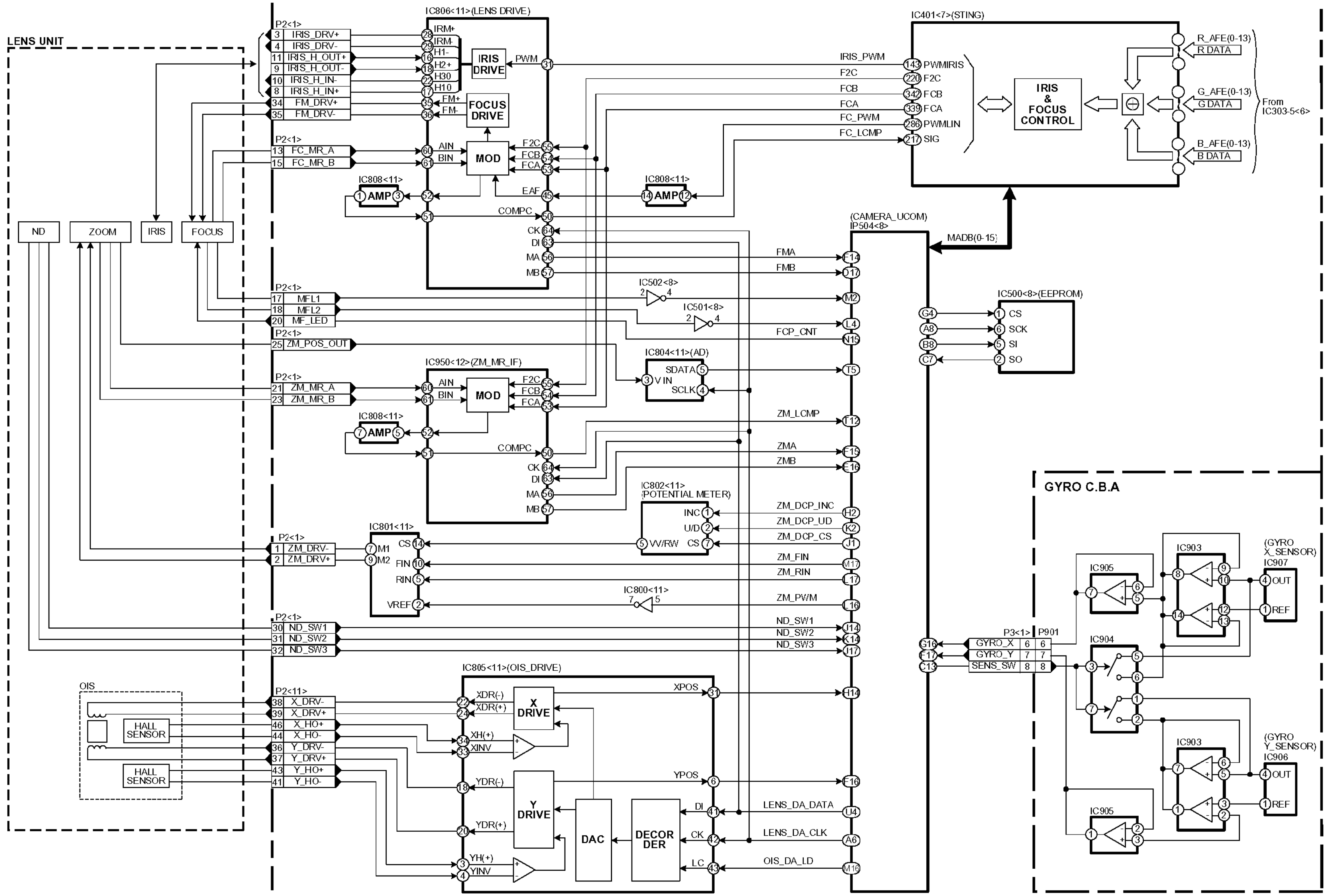
AUDIO BLOCK DIAGRAM (MCR REC: 1394 IN)


HANDLE UNIT
4ECM
HANDLE C.B.A.
IC3<3>
AMP
MIC_RF
MIC_RR
MIC_LR
MIC_LF
INTMIC_L
INTMIC_R
SPEAKER
SP OUT1
SP OUT2
TOP CON C.B.A.
FRONT JACK UNIT
EXT MIC2 C.B.A.
INPUT CH2
MIC +48V ON/OFF
SW
ATT (LINE)
GAIN (MIC)
GAIN (LINE)
AMP
MUX
AMP +10dB
SIDE JACK1 C.B.A.
INPUT CH1
AUDIO IN/OUT
CH2
CH1
XLR2
XLR1
A_CH2_IO
A_CH1_IO
IC210<2>
IC602<6>
LCH INT/EXT SEL
IC603<6>
RCH INT/EXT SEL
AUDXLRINT3
AUDXLRINT4
IC201<2>(AV_IO)(CH1/CH2)
IC202<2>(AV_IO)(CH3/CH4)
MIX
DAC
ADC
HPF
AUDIO I/F
SPP
ROUT
LOUT
SDTI
SDTO
LIN
INTL0
RIN
INTR0
HPR
HPL
TOP OP C.B.A.
BACK PANEL C.B.A.
CH1_VR_IN
CH2_VR_IN
CH1_VR_OUT
CH2_VR_OUT
VR50<2>
CH1 LEV VR
VR51<2>
CH2 LEV VR
HP_R
HP_L
J200<2>
HEAD PHONE
1394
TPB+/-
TPA+/-
CAMERA C.B.A.
CAMERA TOP FPC C.B.A.
MONADATA
RECDAT12
HPADAT
RECDAT34
AUDDATA12
AUDDATA34
IC401<7>(STING)
DELAY
AUDPRE
AUDPREDL
CODEC C.B.A.
IC700<8>(FPGA)
HPADA^A
PHASE ADJUST
RECADAT12
RECADAT34
IC610<7>
SRC
IC400<5>(ZION)
1394 IF
PB DELAY
RAM DELAY
REC DELAY
AUDIO PROC
BOUT12
RC_ADAT12
AOUT34
AOUT12
EXOUT12
AIN12
AIN34
1394IN12
1394IN34
IC900<10>
1394 PHY
PHYDAT(0-7)
OHCI
IC801<9>
PCI_AD(0-31)
SD CARD C.B.A.
SD CARD SLOT
SD_DAT(0-2)
CODEC P2 FPC C.B.A.
P2 CARD C.B.A.
IC201<2>
CardBus Ctrl
PC CARD SLOT
IC401<3>
USB Ctrl
DP
DN
USB
BOTTOM CON C.B.A.
RECADAT_V
PBADAT_V
VTR_TPA+/-
VTR_TPB+/-
VTR C.B.A.
IC9<4>(DUO)
1394 I/O
DV FORMAT PROC
SDI
SDO0
DBR(0-3)
IC21<6>(RIP)
I/F
ENCODER
VITABI
EQ
RF AMP
HSE
PBIN
MECHA IF C.B.A.
C1<2>(HEAD/REC-AMP)
CGA
AGC DET
AGC
CH2F
CH2S
CH1F
CH1S
CYLINDER
RP Rch
RP Lch

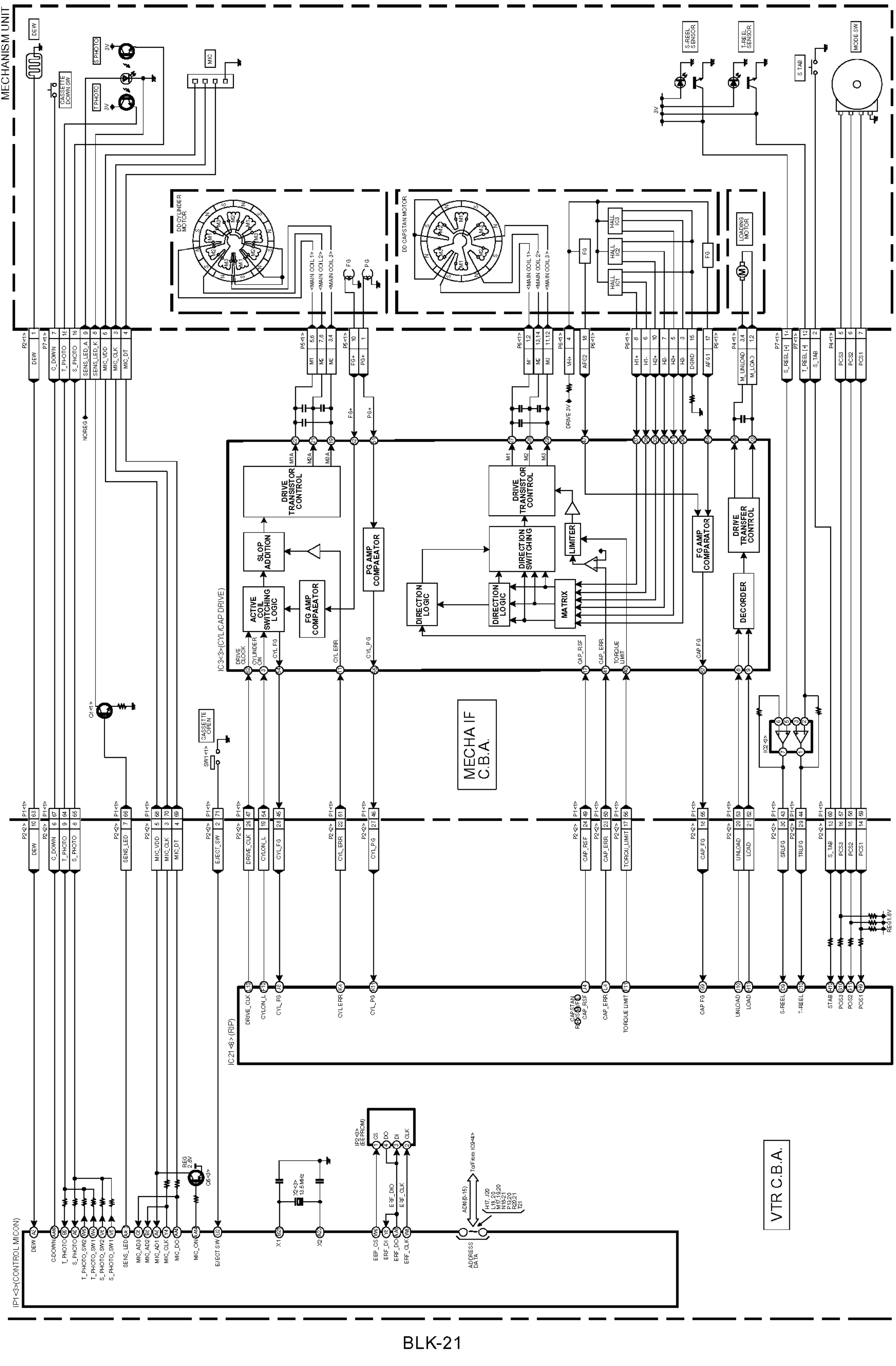
AUDIO BLOCK DIAGRAM (DUBBING mode)


HANDLE UNIT
4ECM
HANDLE C.B.A.
AMP
SPEAKER
TOP CON C.B.A.
FRONT JACK UNIT
EXT MIC2 C.B.A.
SIDE JACK1 C.B.A.
MIC +48V ON/OFF
ATT (LINE)
GAIN (MIC)
GAIN (LINE)
SW
MUX
AMP +10dB
INPUT CH1
INPUT CH2
AUDIO IN/OUT
CH1
CH2
CAMERA C.B.A.
CAMERA TOP FPC C.B.A.
DELAY
IC401<7>(STING)
AUDDATA12
AUDDATA34
LCH INT/EXT SEL
RCH INT/EXT SEL
IC201<2>(AV_I/O)(CH1/CH2)
IC202<2>(AV_I/O)(CH3/CH4)
MIX
DAC
ADC
HPF
AUDIO I/F
TOP OP C.B.A.
BACK PANEL C.B.A.
CH1 LEV VR
CH2 LEV VR
HEAD PHONE
1394
CODEC C.B.A.
IC700<8>(FPGA)
PHASE ADJUST
SRC
IC610<7>
MUX
PB DELAY
RAM DELAY
REC DELAY
AUDIO PROC
1394 I/F
IC400<5>(ZION)
1394 PHY
IC900<10>
OHCI
IC901<8>
SD CARD C.B.A.
SD CARD SLOT
CODEC P2 FPC C.B.A.
P2 CARD C.B.A.
CardBus Ctrl
IC201<2>
PC CARD SLOT
USB Ctrl
IC401<3>
USB
VTR C.B.A.
1394 I/O
DV FORMAT PROC
IC9<4>(DUO)
ENCODER
VITABI
EQ
RF AMP
IC21<6>(RIP)
MECHA I/F C.B.A.
IC1<2>(HEAD/REC-AMP)
CGA
AGC DET
AGC
AMP
CYLINDER
RP Rch
RP Lch
BOTTOM CON C.B.A.

LENS DRIVE (CAMERA C.B.A.) BLOCK DIAGRAM


LENS UNIT
ND
ZOOM
IRIS
FOCUS
OIS
HALL SENSOR
HALL SENSOR
P2<1>
3 IRIS_DRV+
4 IRIS_DRV-
11 IRIS_H_OUT+
9 IRIS_H_OUT-
10 IRIS_H_IN-
8 IRIS_H_IN+
34 FM_DRV+
35 FM_DRV-
13 FC_MR_A
15 FC_MR_B
17 MFL1
18 MFL2
20 MF_LED
25 ZM_POS_OUT
21 ZM_MR_A
23 ZM_MR_B
1 ZM_DRV-
2 ZM_DRV+
30 ND_SW1
31 ND_SW2
32 ND_SW3
P2<11>
38 X_DRV-
39 X_DRV+
46 X_HO+
44 X_HO-
36 Y_DRV-
37 Y_DRV+
43 Y_HO+
41 Y_HO-
IC806<11>(LENS DRIVE)
IRM+
IRM-
H1-
H2+
H30
H10
FM+
FM-
IRIS DRIVE
FOCUS DRIVE
PWM
MOD
AIN
BIN
F2C
FCB
FCA
EAF
COMPC
CK
DI
MA
MB
IC808<11>
AMP
IC950<12>(ZM_MR_IF)
IC502<8>
IC501<8>
IC804<11>(AD)
SDATA
V IN
SCLK
IC802<11> (POTENTIAL METER)
INC
U/D
CS
VV/RW
IC801<11>
M1
M2
FIN
RIN
VREF
IC800<11>
IC805<11>(OIS_DRIVE)
XDR(-)
XDR(+)
X DRIVE
XH(+)
XINV
YDR(-)
YDR(+)
Y DRIVE
YH(+)
YINV
DAC
DECOR DER
XPOS
YPOS
LC
IRIS_PWM
FC_PWM
FC_LCMP
FMA
FMB
FCP_CNT
ZM_LCMP
ZMA
ZMB
ZM_DCP_INC
ZM_DCP_UD
ZM_DCP_CS
ZM_FIN
ZM_RIN
ZM_PWM
ND_SW1
ND_SW2
ND_SW3
LENS_DA_DATA
LENS_DA_CLK
OIS_DA_LD
(CAMERA_UCOM) IP504<8>
MADB(0-15)
IC401<7>(STING)
PWMIRIS
PWMLIN
SIG
IRIS & FOCUS CONTROL
R_AFE(0-13)
R DATA
G_AFE(0-13)
G DATA
B_AFE(0-13)
B DATA
From IC303-5<6>
IC500<8>(EEPROM)
CS
SCK
SI
SO
GYRO C.B.A
P3<1>
P901
GYRO_X
GYRO_Y
SENS_SW
IC905
IC904
IC903
(GYRO X_SENSOR) IC907
(GYRO Y_SENSOR) IC906
OUT
REF

SERVO DRIVE (VTR / MECHA IF C.B.A.) BLOCK DIAGRAM



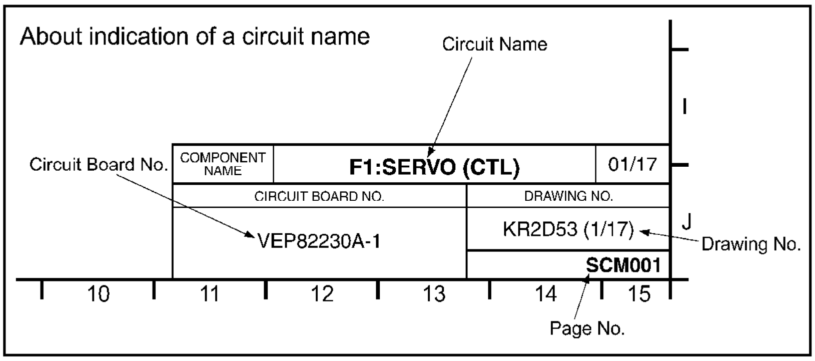
MECHANISM UNIT
DEW
CASSETTE DOWN SW
T PHOTO
S PHOTO
MIC
DD CYLINDER MOTOR
DD CAPSTAN MOTOR
HALL IC1
HALL IC2
HALL IC3
FG
LOADING MOTOR
S-REEL SENSOR
T-REEL SENSOR
S TAB
MODE SW
IC2<3>(CYL/CAP DRIVE)
DRIVE TRANSISTOR CONTROL
SLOP ADDITION
ACTIVE COIL SWITCHING LOGIC
FG AMP COMPAEATOR
PG AMP COMPAEATOR
DIRECTION LOGIC
DIRECTION SWITCHING
MATRIX
LIMITER
FG AMP COMPARATOR
DRIVE TRANSFER CONTROL
DECORDER
MECHA IF C.B.A.
CASSETTE OPEN
IC21<6>(RIP)
IP1<3>(CONTROL MICON)
IP2<3>(EEPROM)
X2<3> 13.5MHz
Q5<3>
REG 2.8V
ADDRESS DATA
VTR C.B.A.
DEW
C_DOWN
T_PHOTO
S_PHOTO
SENS_LED
MIC_VDD
MIC_CLK
MIC_DT
EJECT_SW
DRIVE_CLK
CYLON_L
CYL_FG
CYL_ERR
CYL_PG
CAP_RSF
CAP_ERR
TORQUE_LIMIT
CAP_FG
UNLOAD
LOAD
SREEL
TREEL
S_TAB
PCS3
PCS2
PCS1
EEP_CS
ERF_DI
ERF_DO
ERF_CLK

SECTION 6

SCHEMATIC DIAGRAMS

回　路　図

MODEL: AG-HVX200/P/AN/E/MC/HVX202EN

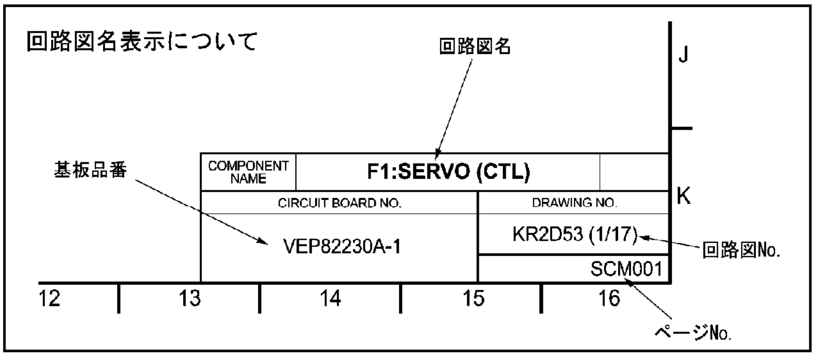

About indication of a circuit name
Circuit Name
Circuit Board No.
COMPONENT NAME
F1:SERVO (CTL)
01/17
CIRCUIT BOARD NO.
DRAWING NO.
VEP82230A-1
KR2D53 (1/17)
SCM001
Drawing No.
Page No.
I
J
10
11
12
13
14
15

NOTE:
BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST SECTION.

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.


回路図名表示について
回路図名
基板品番
COMPONENT NAME
F1:SERVO (CTL)
CIRCUIT BOARD NO.
DRAWING NO.
VEP82230A-1
KR2D53 (1/17)
SCM001
回路図No.
ページNo.
J
K
12
13
14
15
16

⚠ 警告

⚠の部品は、安全上重要な部品です。
交換するときは、安全及び性能維持のため、必ず指定の部品をご使用ください。
部品は難燃性や耐電圧など、安全上の特性を持ったものとなっていますので、部品交換は、使用されているものと同じ特性の部品をご使用ください。

部品ご注文の際には必ず部品リストに記載の品番でご注文ください。

⚠ 警　告	
感電注意	AC100Vの加わっている活電部(充電部、活電部)に直接触れないでください。 ☞ 感電ややけどの可能性があります。

① ⚠ 警　告　⚠ 印の部品は安全上重要な部品です。交換するときは、安全上および性能維持のため必ず指定の部品をご使用ください。
② ▭ 内は充電部です。AC 100Vが加わっておりますので点検、修理のときは感電しないよう充分ご注意ください。
③ 部品交換時には、電源プラグをぬいてから行ってください。
④ 一次側（充電部）の電圧・波形は、一次側アースを基準に測定してください。
⑤ 部品品番は、部品リストで確認の上交換ください。

CONTENTS

INTERCONNECTION

INTERCONNECTION (1/2) SCM001
INTERCONNECTION (2/2) SCM002

CAMERA

CONNECTOR (1/13) SCM003
CLK (2/13) SCM004
TG_FPGA (3/13) SCM005
V_DRIVER (4/13) SCM006
CCD_VREG (5/13) SCM007
AFE (6/13) SCM008
STING (7/13) SCM009
uCON (8/13) SCM010
ANALOG_I/O (9/13) SCM011
VIDEO_I/O (10/13) SCM012
LENS_DRIVE (11/13) SCM013
ZM_MR_IF (12/13) SCM014
TMP_OUT (13/13) SCM015

CODEC

CONNECTOR (1/10) SCM016
SH4 (2/10) SCM017
SH4-MEMORY (3/10) SCM018
TX19 (4/10) SCM019
ZION (5/10) SCM020
ZION-SDRAM (6/10) SCM021
AUDIO PLL (7/10) SCM022
FPGA (8/10) SCM023
OHCI (9/10) SCM024
1394 PHY (10/10) SCM025

POWER

IN/OUT etc (1/4) SCM026
3V (1), 1.5V etc (2/4) SCM027
3V (2), 1.2V etc (3/4) SCM028
48V (4/4) SCM029

VTR

CONNECTOR1_BE (1/6) SCM030
CONNECTOR2_MECHA (2/6) SCM031
TX (3/6) SCM032
DUO (4/6) SCM033
SIF (5/6) SCM034
RIP (6/6) SCM035

P2 CARD

CONNECTOR (1/3) SCM036
CARD_IF (2/3) SCM037
USB (3/3) SCM038

TOP OP

CONNECTOR (1/7) SCM039
AVIO (2/7) SCM040
EVF DRIVER (3/7) SCM041
OPERATION SW (4/7) SCM042
PIO (5/7) SCM043
AUDIO_INPUT (6/7) SCM044
LOW_CUT (7/7) SCM045

MECHA IF

CONNECTOR (1/3) SCM046
HRAMP (2/3) SCM047
DRIVE (3/3) SCM048

POWER SW

POWER_SW (1/1) SCM049

BACK PANEL

CONNECTOR (1/3) SCM050
AUDIO_VR (2/3) SCM051
1394 CONNECTOR (3/3) SCM052

TOP CON

TOP_CON (1/1) SCM053

BOTTOM CON

BOTTOM_CON (1/1) SCM054

SIDE JACK1

CONNECTOR (1/2) SCM055
XLR1 (2/2) SCM056

EXT MIC2

EXT MIC2 (1/1) SCM057

GYRO

GYRO (1/1) SCM058

SIDE JACK2

SIDE JACK2 (1/2) SCM059
SIDE JACK2 (2/2) SCM060

SD CARD

SD_CARD (1/1) SCM061

ZOOM SW

ZOOM SW (1/2) SCM062
ZOOM SW (2/2) SCM063

HANDLE

HANDLE (1/3) SCM064
HANDLE (2/3) SCM065
HANDLE (3/3) SCM066

REMOCON

REMOCON (1/1) SCM067

BATTERY

BATTERY (1/1) SCM068

DC IN

DC IN (1/1) SCM069

R SIDE

R_SIDE (1/3) SCM070
R_SIDE (2/3) SCM071
LEV (3/3) SCM072

CAM OP1

CAM_OP1 (1/2) SCM073
CAM_OP1 (2/2) SCM074

CAM OP2

CAM_OP2 (1/2) SCM075
CAM_OP2 (2/2) SCM076

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CAM_OP3 (1/2) SCM077
CAM_OP3 (2/2) SCM078

LCD LEV

LCD_LEV (1/2) SCM079
LCD_LEV (2/2) SCM080

EVF CONNECT

EVF CONNECT (1/1) SCM081

CCD FLEX

CCD_FLEX (1/4) SCM082
CCD_FLEX (2/4) SCM083
CCD_FLEX (3/4) SCM084
CCD_FLEX (4/4) SCM085

CODEC P2 FPC

CODEC P2 FPC (1/1) SCM086

CAMERA TOP FPC

CAMERA TOP FPC (1/1) SCM087

TOP OP SIDE JACK1 FPC

TOP OP SIDE JACK1 FPC (1/1) SCM088

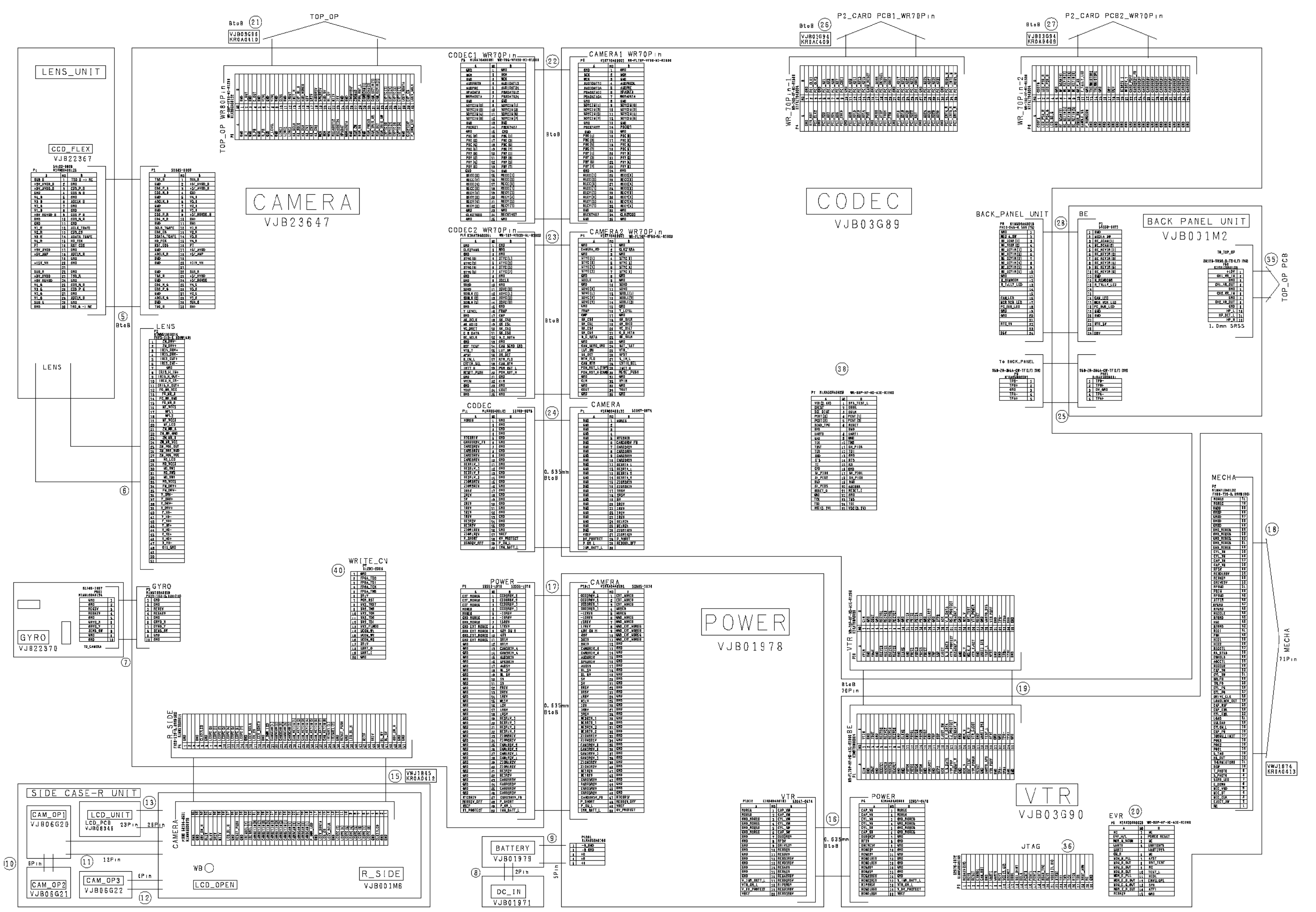
CONTENTS

CAMERA R SIDE FPC

CAMERA R SIDE FPC (1/1) SCM089

VTR MECHA IF FPC

VTR MECHA IF FPC (1/1) SCM090


LENS_UNIT
CCD_FLEX
VJB22367
LENS
TOP_OP
TOP_OP WR80Pin
BtoB ㉑
VJB03G88
CAMERA
VJB23647
CODEC1 WR70Pin
CAMERA1 WR70Pin
CODEC2 WR70Pin
CAMERA2 WR70Pin
CODEC
CAMERA
POWER
BtoB
0.635mm BtoB
P2_CARD PCB1_WR70Pin
P2_CARD PCB2_WR70Pin
WR_70Pin-1
WR_70Pin-2
CODEC
VJB03G89
BACK_PANEL_UNIT
BE
BACK PANEL UNIT
VJB001M2
TOP_OP PCB
To BACK_PANEL
MECHA
71Pin
VWJ1874
GYRO
VJB22370
WRITE_CV
R_SIDE
POWER
VJB01978
VTR
BE
BtoB 28Pin
VTR
VJB03G90
EVR
JTAG
SIDE CASE-R UNIT
CAM_OP1
VJB06G20
LCD_UNIT
LCD_PCB
CAM_OP2
VJB06G21
CAM_OP3
VJB06G22
WB
LCD_OPEN
R_SIDE
VJB001M6
VWJ1865
BATTERY
VJB01979
DC_IN
VJB01971
2Pin
5Pin
13Pin
23Pin
26Pin
6Pin
8Pin
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
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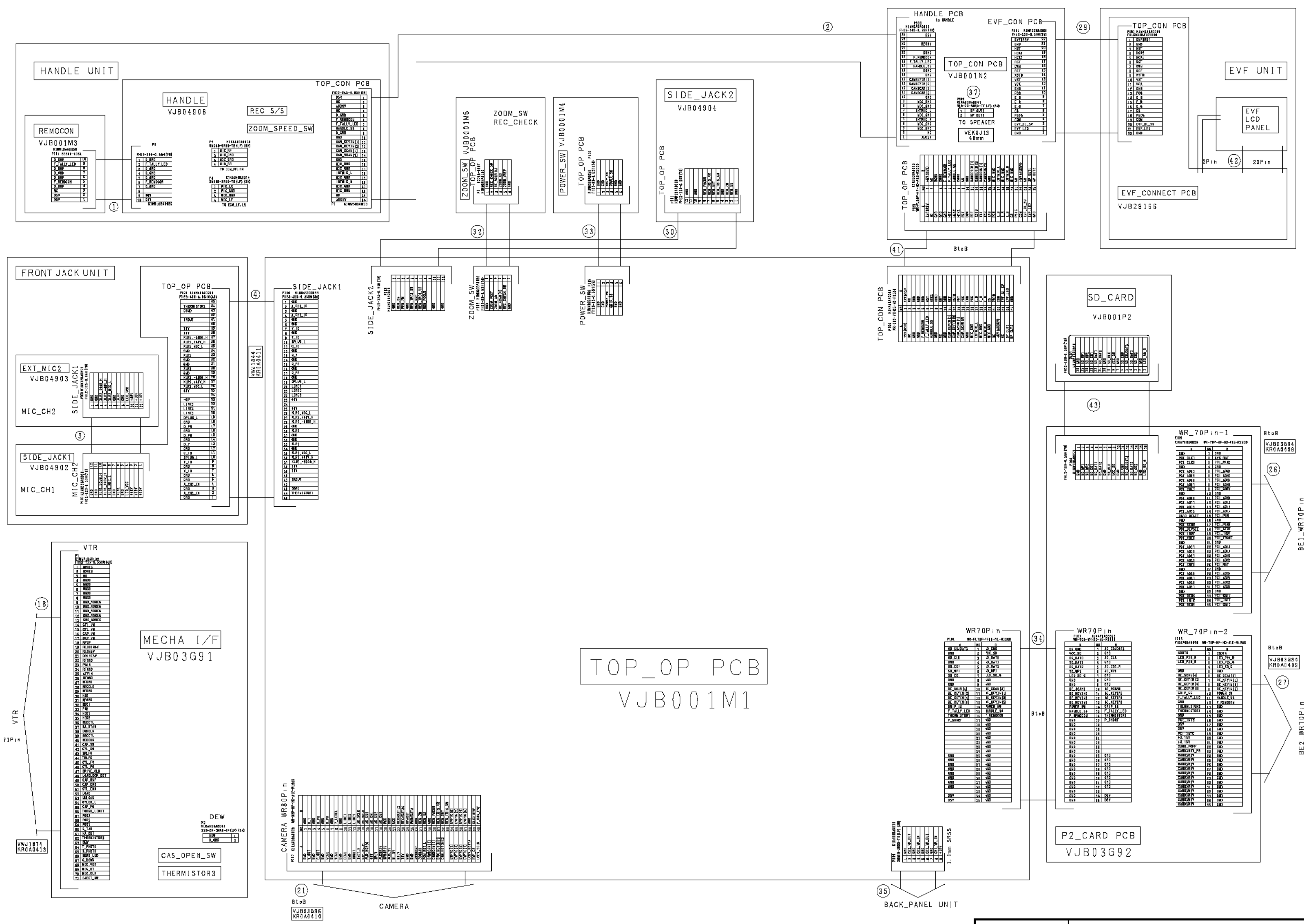
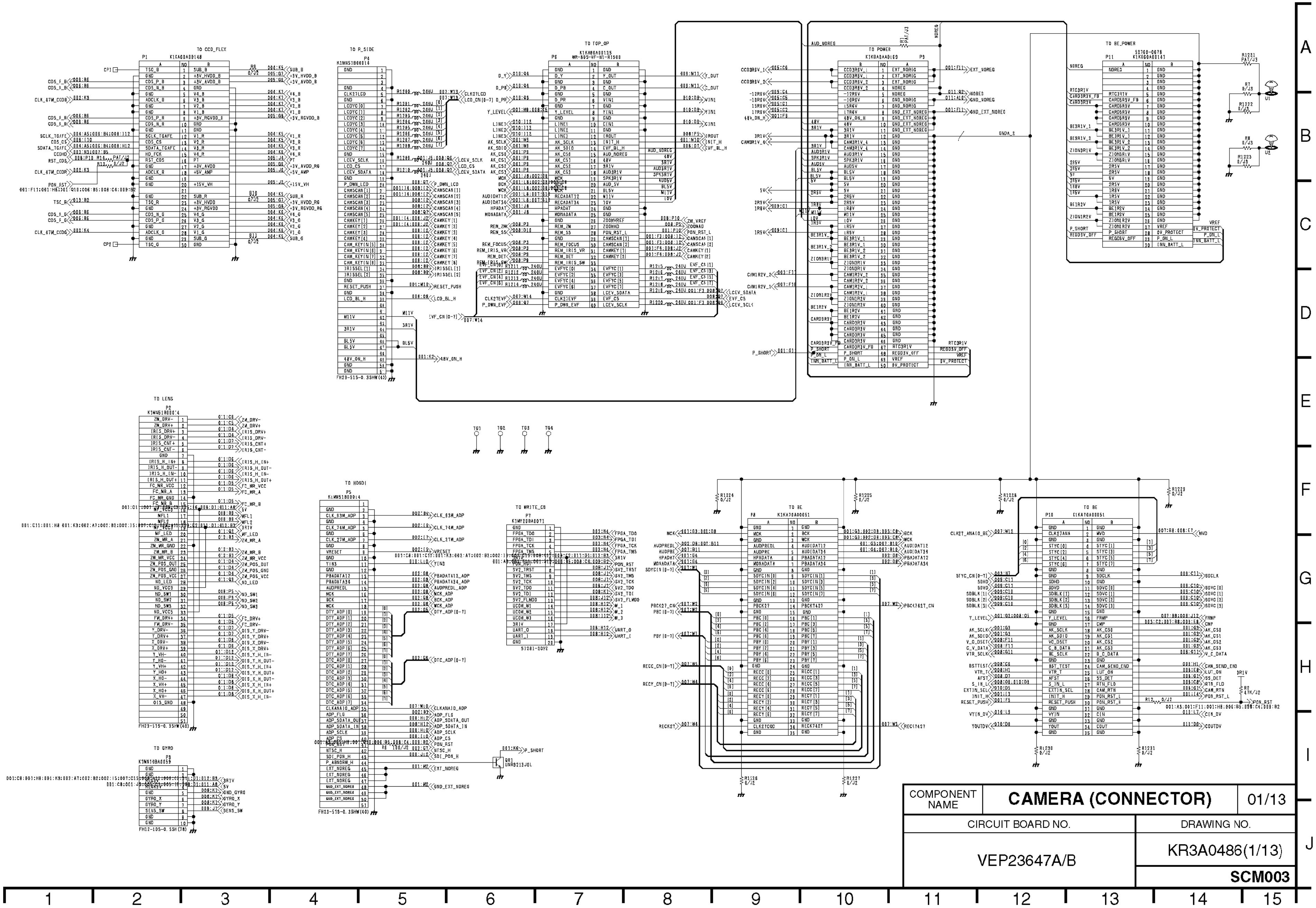
14
15

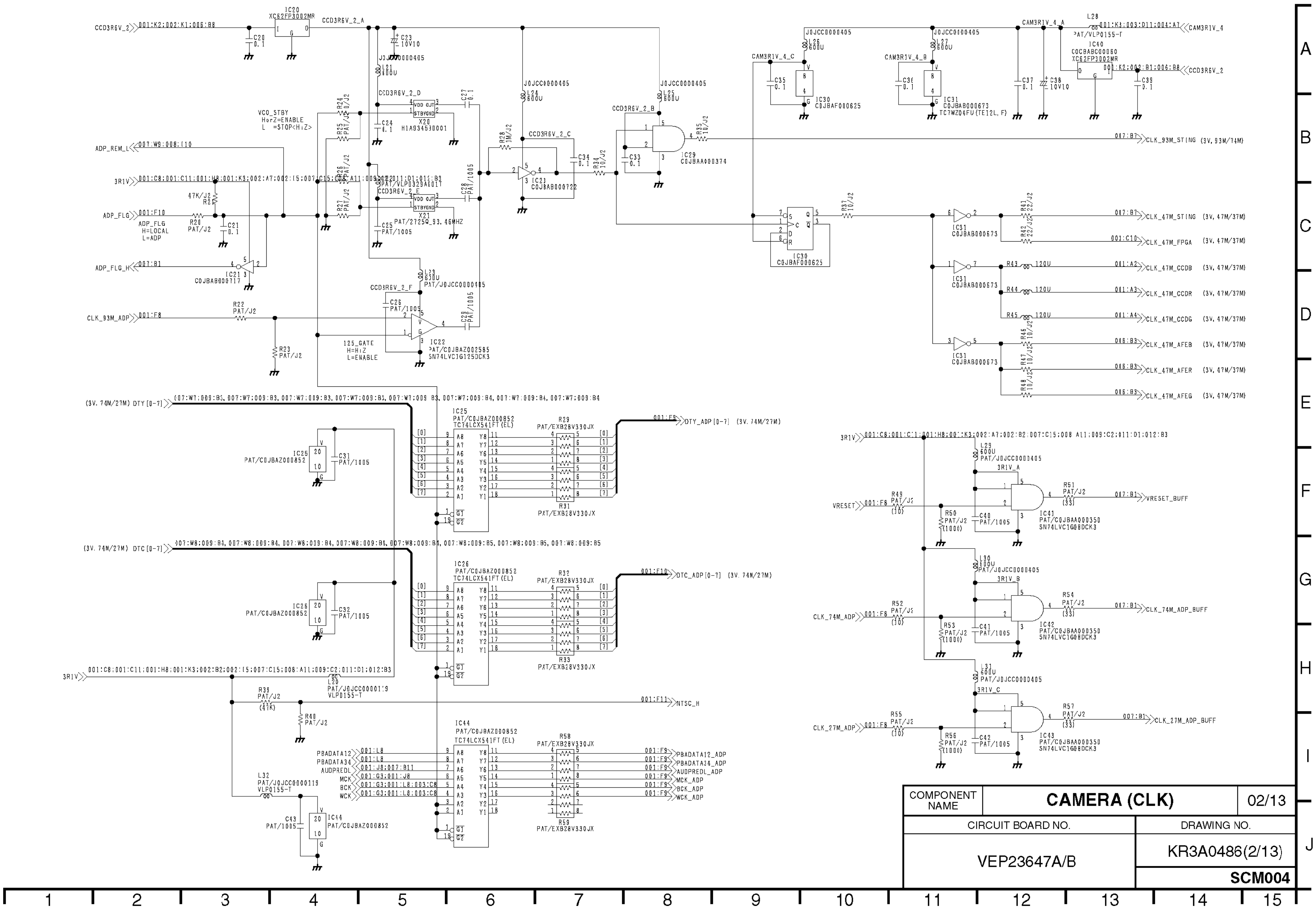
COMPONENT NAME	INTERCONNECTION	01/02
CIRCUIT BOARD NO.		DRAWING NO.
		(1/2)
		SCM001


HANDLE UNIT
HANDLE
VJB04806
REC S/S
ZOOM_SPEED_SW
REMOCON
VJB001M3
TOP_CON PCB
①
②
ZOOM_SW
TOP_OP PCB
VJB001M5
ZOOM_SW
REC_CHECK
POWER_SW
VJB001M4
TOP_OP PCB
SIDE_JACK2
VJB04904
TOP_OP PCB
㉜
㉝
㉚
HANDLE_PCB
EVF_CON PCB
TOP_CON PCB
VJB001N2
㊲
TO SPEAKER
VEK0J13
60mm
TOP_OP PCB
㊶
BtoB
㉙
TOP_CON PCB
EVF UNIT
EVF
LCD
PANEL
2Pin
㊷
20Pin
EVF_CONNECT PCB
VJB29156
FRONT JACK UNIT
EXT_MIC2
VJB04903
MIC_CH2
SIDE_JACK1
③
SIDE_JACK1
VJB04902
MIC_CH1
MIC_CH2
TOP_OP PCB
④
VWJ1644
KR0A6411
SIDE_JACK1
SIDE_JACK2
ZOOM_SW
POWER_SW
TOP_CON PCB
SD_CARD
VJB001P2
㊸
WR_70Pin-1
BtoB
VJB03G94
KR0A6409
㉘
BE1_WR70Pin
VTR
VTR
71Pin
⑱
VWJ1874
KR0A6415
MECHA I/F
VJB03G91
DEW
CAS_OPEN_SW
THERMISTOR3
TOP_OP PCB
VJB001M1
WR70Pin
㉞
BtoB
WR70Pin
WR_70Pin-2
BtoB
VJB03G94
KR0A6409
㉗
BE2_WR70Pin
P2_CARD PCB
VJB03G92
CAMERA WR80Pin
㉑
BtoB
VJB03G96
KR0A6410
CAMERA
1.0mm 5R55
㉟
BACK_PANEL UNIT
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

COMPONENT NAME	INTERCONNECTION		02/02
CIRCUIT BOARD NO.		DRAWING NO.	
		(2/2)	
		SCM002	



COMPONENT NAME	CAMERA (CONNECTOR)	01/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP23647A/B		KR3A0486(1/13)
		SCM003


CCD3R6V_2
IC20
XC62FP3002MR
CCD3R6V_2_A
C20 0.1
C23 10V10
L21 600U
C24 0.1
X20 H1A934530001
VCO_STBY
H or Z=ENABLE
L =STOP<HiZ>
ADP_REM_L
3R1V
ADP_FLG
ADP_FLG
H=LOCAL
L=ADP
ADP_FLG_H
IC21 C0JBAB000717
CLK_93M_ADP
R22 PAT/J2
R23 PAT/J2
X21 PAT/2725Q_93.46MHZ
L23 600U PAT/J0JCC0000405
IC22 PAT/C0JBAZ002585 SN74LVC1G125DCK3
125_GATE
H=HiZ
L=ENABLE
L24 600U
R28 1M/J2
CCD3R6V_2_C
IC23 C0JBAB000722
R34 10/J2
L25 600U
CCD3R6V_2_B
IC29 C0JBAA000374
R35 10/J2
CLK_93M_STING (3V,93M/74M)
CAM3R1V_4_C
IC30 C0JBAF000625
R37 10/J2
CAM3R1V_4_B
IC31 C0JBAB000673 TC7WZ04FU(TE12L,F)
CAM3R1V_4_A
L28 PAT/VLP0155-T
IC40 C0CBABC00060 XC62FP3002MR
CAM3R1V_4
CCD3R6V_2
CLK_47M_STING (3V,47M/37M)
CLK_47M_FPGA (3V,47M/37M)
CLK_47M_CCDB (3V,47M/37M)
CLK_47M_CCDR (3V,47M/37M)
CLK_47M_CCDG (3V,47M/37M)
CLK_47M_AFEB (3V,47M/37M)
CLK_47M_AFER (3V,47M/37M)
CLK_47M_AFEG (3V,47M/37M)
(3V,74M/27M) DTY[0-7]
IC25 PAT/C0JBAZ000852 TC74LCX541FT(EL)
R29 PAT/EXB28V330JX
R31 PAT/EXB28V330JX
DTY_ADP[0-7] (3V,74M/27M)
(3V,74M/27M) DTC[0-7]
IC26 PAT/C0JBAZ000852 TC74LCX541FT(EL)
R32 PAT/EXB28V330JX
R33 PAT/EXB28V330JX
DTC_ADP[0-7] (3V,74M/27M)
3R1V
L29 PAT/J0JCC0000119 VLP0155-T
R39 PAT/J2 (47K)
R40 PAT/J2
NTSC_H
L32 PAT/J0JCC0000119 VLP0155-T
C43 PAT/1005
IC44 PAT/C0JBAZ000852 TC74LCX541FT(EL)
PBADATA12
PBADATA34
AUDPREDL
MCK
BCK
WCK
R58 PAT/EXB28V330JX
R59 PAT/EXB28V330JX
PBADATA12_ADP
PBADATA34_ADP
AUDPREDL_ADP
MCK_ADP
BCK_ADP
WCK_ADP
VRESET
R49 PAT/J2 (10)
R50 PAT/J2 (1000)
L29 600U PAT/J0JCC0000405
3R1V_A
IC41 PAT/C0JBAA000350 SN74LVC1G08DCK3
R51 PAT/J2 (33)
VRESET_BUFF
CLK_74M_ADP
R52 PAT/J2 (10)
R53 PAT/J2 (1000)
L30 600U PAT/J0JCC0000405
3R1V_B
IC42 PAT/C0JBAA000350 SN74LVC1G08DCK3
R54 PAT/J2 (33)
CLK_74M_ADP_BUFF
CLK_27M_ADP
R55 PAT/J2 (10)
R56 PAT/J2 (1000)
L31 600U PAT/J0JCC0000405
3R1V_C
IC43 PAT/C0JBAA000350 SN74LVC1G08DCK3
R57 PAT/J2 (33)
CLK_27M_ADP_BUFF
A
B
C
D
E
F
G
H
I
J
1
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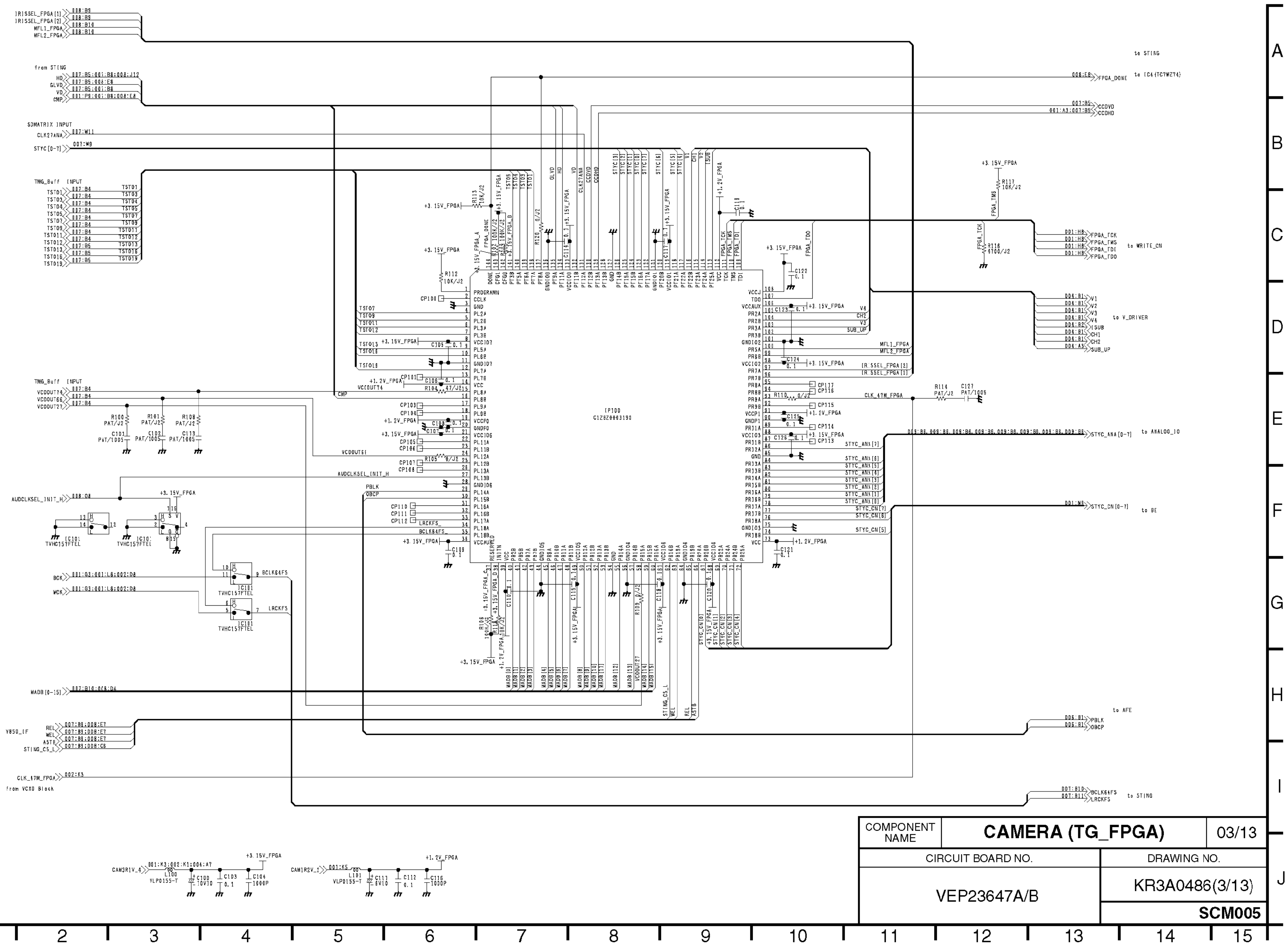
COMPONENT NAME	CAMERA (CLK)		02/13
CIRCUIT BOARD NO.		DRAWING NO.	
VEP23647A/B		KR3A0486(2/13)	
		SCM004	


A
B
C
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G
H
I
J
1
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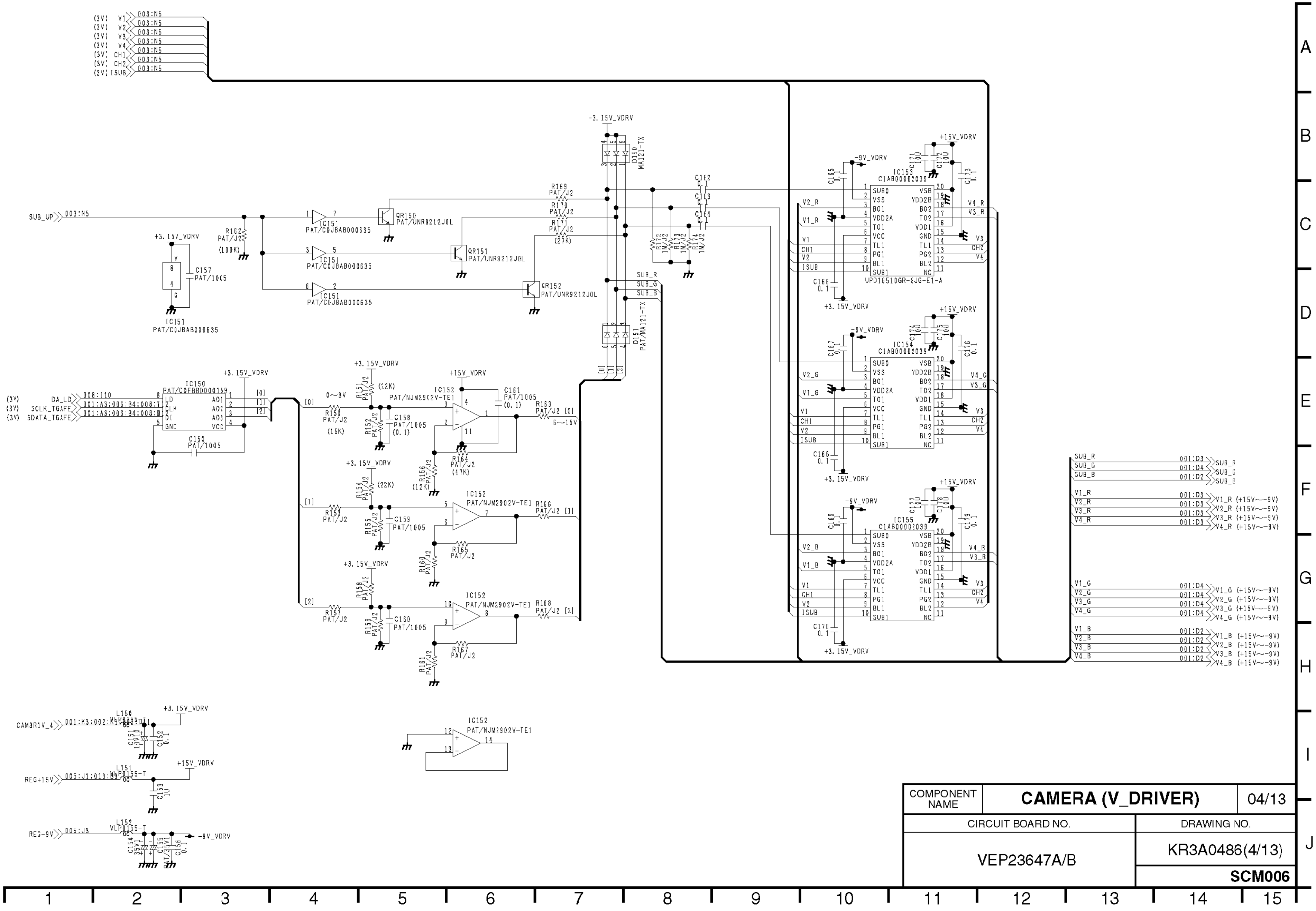
10
11
12
13
14
15
IRISSEL_FPGA[1]
IRISSEL_FPGA[2]
MFL1_FPGA
MFL2_FPGA
from STING
HD
GLVD
VD
CMP
SDMATRIX INPUT
CLK27ANA
STYC[0-7]
TMG_Buff INPUT
TMG_Buff INPUT
VCDOUT74
VCDOUT66
VCDOUT27
AUDCLKSEL_INIT_H
BCK
WCK
MADB[0-15]
VBSO_IF
REL
WEL
ASTB
STING_CS_L
CLK_67M_FPGA
from VCXO Block
IC100
C1ZE20003190
IC101
TVHC157FTEL
IC181
TVHC157FTEL
BCLK64FS
LRCKFS
FPGA_DONE
to STING
to IC4(TC7WZ74)
CCDVD
CCDHD
+3.15V_FPGA
+1.2V_FPGA
FPGA_TCK
FPGA_TMS
FPGA_TDI
FPGA_TDO
to WRITE_CN
V1
V2
V3
V4
ISUB
CH1
CH2
SUB_UP
to V_DRIVER
STYC_ANA[0-7]
to ANALOG_IO
STYC_CN[0-7]
to BE
PBLK
OBCP
to AFE
BCLK64FS
LRCKFS
to STING
CAM3R1V_4
L100
VLP0155-T
CAM1R2V_1
L101
VLP0155-T

COMPONENT NAME	CAMERA (TG_FPGA)	03/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP23647A/B		KR3A0486(3/13)
		SCM005


SUB_UP 003:N5
(3V) V1 003:N5
(3V) V2 003:N5
(3V) V3 003:N5
(3V) V4 003:N5
(3V) CH1 003:N5
(3V) CH2 003:N5
(3V) ISUB 003:N5
IC150 PAT/C0FBBD000159
IC151 PAT/C0JBAB000635
IC152 PAT/NJM2902V-TE1
IC153 C1AB00002039
IC154 C1AB00002039
IC155 C1AB00002039
UPD16510GR-6JG-E1-A
QR150 PAT/UNR9212J0L
QR151 PAT/UNR9212J0L
QR152 PAT/UNR9212J0L
D150 MA121-TX
D151 PAT/MA121-TX
L150 VLP0155-T
L151 VLP0155-T
L152 VLP0155-T
+3.15V_VDRV
-3.15V_VDRV
+15V_VDRV
-9V_VDRV
DA_LD 008:I10
SCLK_TGAFE 001:A3:006:B4:008:I
SDATA_TGAFE 001:A3:006:B4:008:I
CAM3R1V_4 001:K3:002:K1
REG+15V 005:J1:013:N9
REG-9V 005:J3
SUB_R 001:D3
SUB_G 001:D4
SUB_B 001:D2
V1_R (+15V~-9V)
V2_R (+15V~-9V)
V3_R (+15V~-9V)
V4_R (+15V~-9V)
V1_G (+15V~-9V)
V2_G (+15V~-9V)
V3_G (+15V~-9V)
V4_G (+15V~-9V)
V1_B (+15V~-9V)
V2_B (+15V~-9V)
V3_B (+15V~-9V)
V4_B (+15V~-9V)
0~3V
6~15V
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
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9
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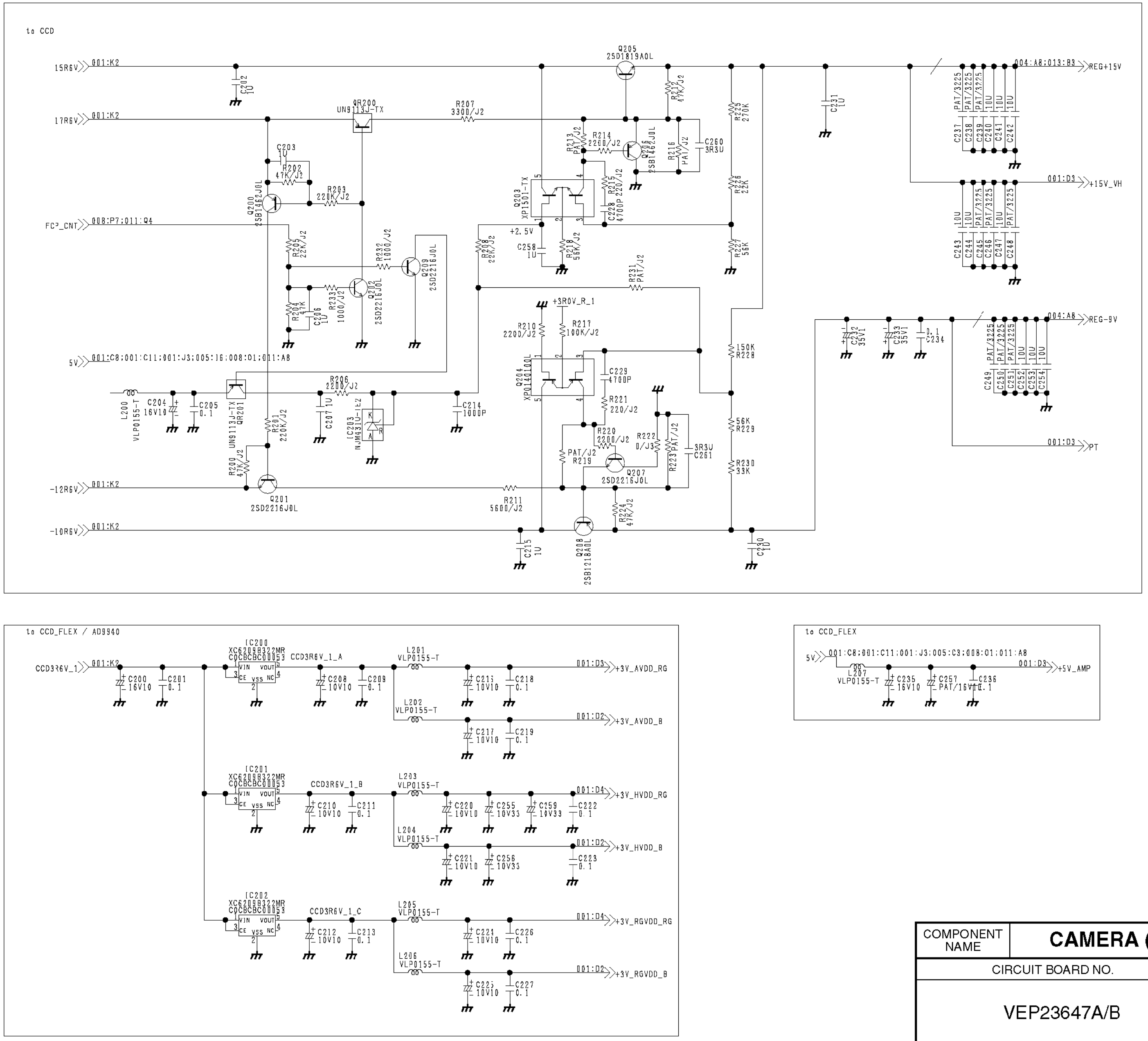
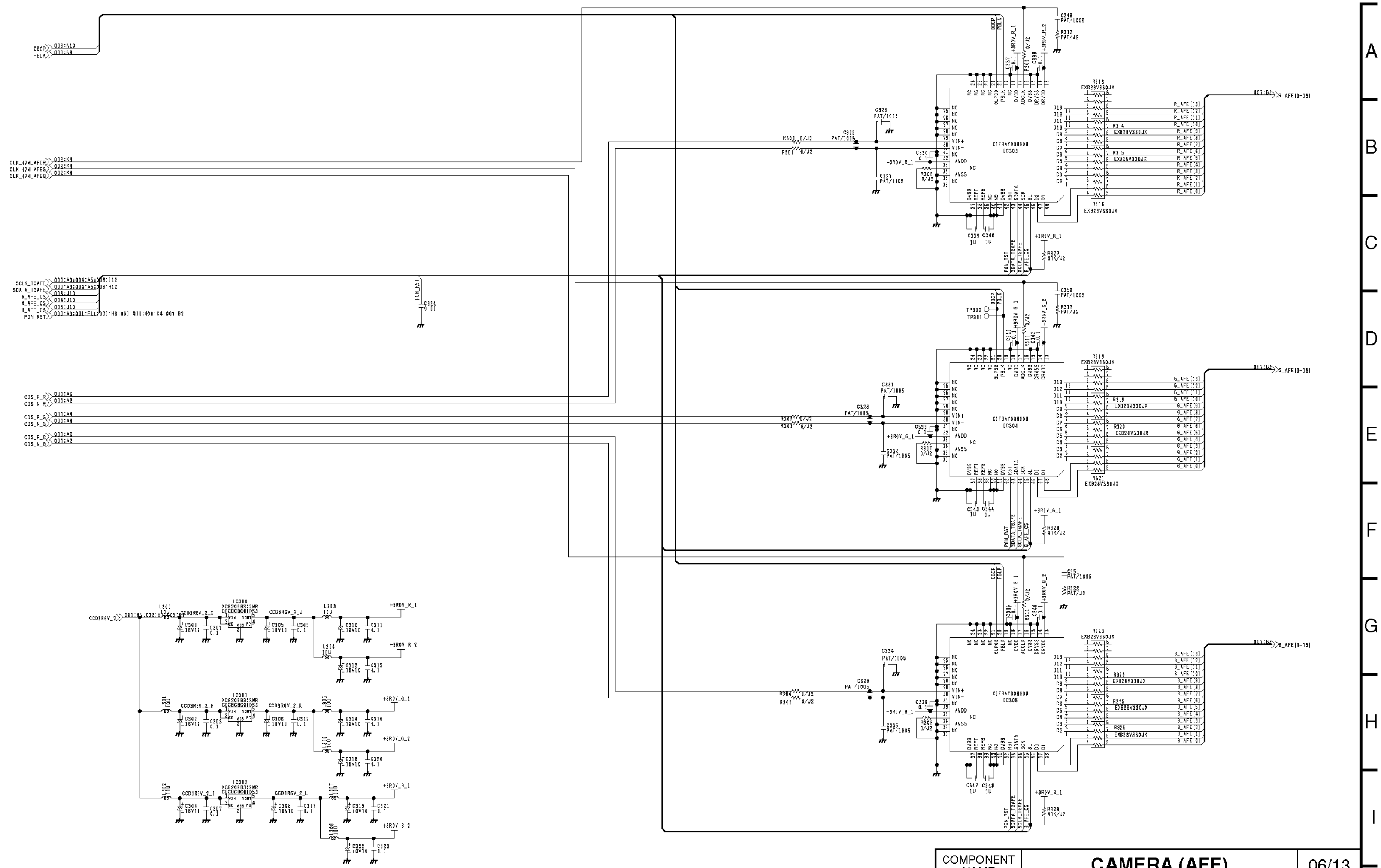
COMPONENT NAME	CAMERA (V_DRIVER)	04/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP23647A/B		KR3A0486(4/13)
		SCM006


to CCD
15R6V
17R6V
FCP_CNT
5V
-12R6V
-10R6V
REG+15V
+15V_VH
REG-9V
PT
Q205 2SD1819A0L
Q206 2SB1462J0L
Q203 XP1501-TX
Q204 XP01401000L
Q200 2SB1462J0L
Q201 2SD2216J0L
Q202 2SD2216J0L
Q207 2SD2216J0L
Q208 2SB1218A0L
Q209 2SD2216J0L
QR200 UN9113J-TX
QR201 UN9113J-TX
IC203 NJM431U-L2
L200 VLP0155-T
+2.5V
+3R0V_R_1
to CCD_FLEX / AD9940
CCD3R6V_1
IC200 XC6209B322MR C0CBCBC00053
IC201 XC6209B322MR C0CBCBC00053
IC202 XC6209B322MR C0CBCBC00053
CCD3R6V_1_A
CCD3R6V_1_B
CCD3R6V_1_C
+3V_AVDD_RG
+3V_AVDD_B
+3V_HVDD_RG
+3V_HVDD_B
+3V_RGVDD_RG
+3V_RGVDD_B
to CCD_FLEX
L207 VLP0155-T
+5V_AMP

COMPONENT NAME	CAMERA (CCD_VREG)	05/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP23647A/B	KR3A0486(5/13)	
	SCM007	


OBCP
PBLK
CLK_47M_AFER
CLK_47M_AFEG
CLK_47M_AFEB
SCLK_TGAFE
SDATA_TGAFE
R_AFE_CS
G_AFE_CS
B_AFE_CS
PON_RST
CDS_P_R
CDS_N_R
CDS_P_G
CDS_N_G
CDS_P_B
CDS_N_B
CCD3R6V_2
IC300
IC301
IC302
IC303
IC304
IC305
C0FBAY000008
EXB28V330JX
R_AFE[0-13]
G_AFE[0-13]
B_AFE[0-13]
+3R0V_R_1
+3R0V_R_2
+3R0V_G_1
+3R0V_G_2
+3R0V_B_1
+3R0V_B_2
TP300
TP301
A
B
C
D
E
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G
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I
J
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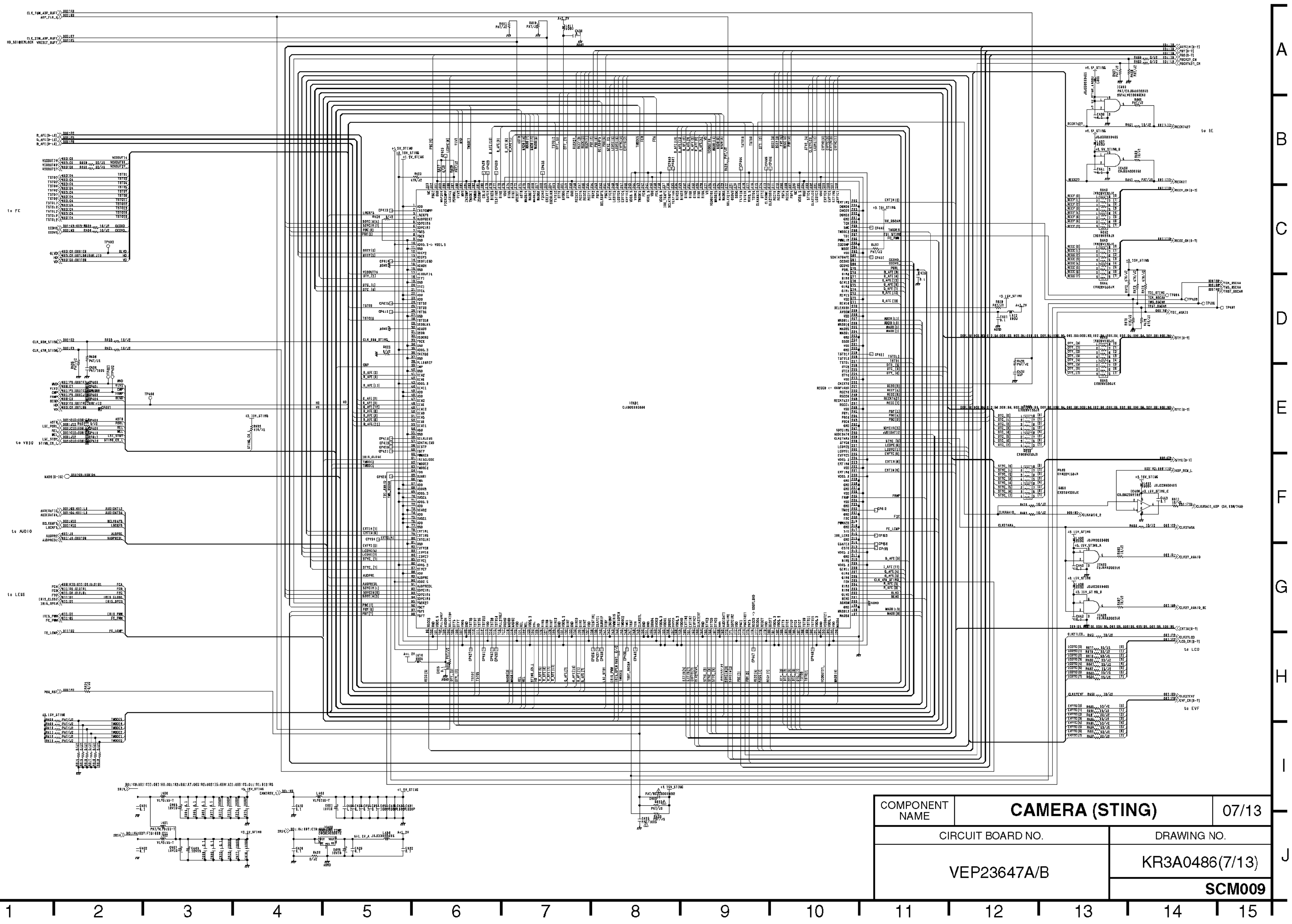
COMPONENT NAME	CAMERA (AFE)	06/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP23647A/B		KR3A0486(6/13)
		SCM008


to FE
to VBSQ
to AUDIO
to LENS
to BE
to LCD
to EVF
IC401
TCK_BSCAN
TMS_BSCAN
TRST_BSCAN
A
B
C
D
E
F
G
H
I
J
1
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11
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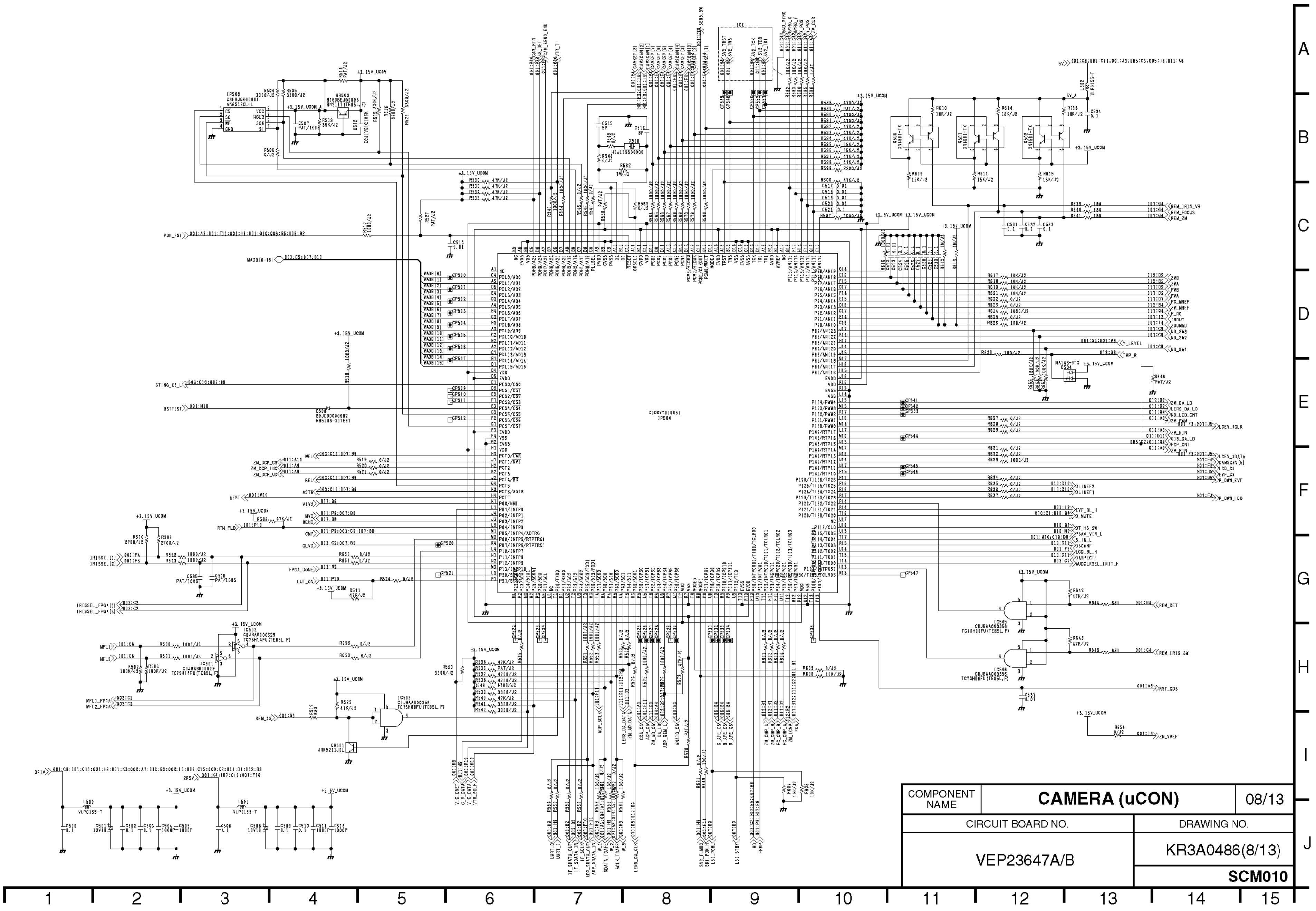
14
15

COMPONENT NAME	CAMERA (STING)	07/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP23647A/B	KR3A0486(7/13)	
	SCM009	


A
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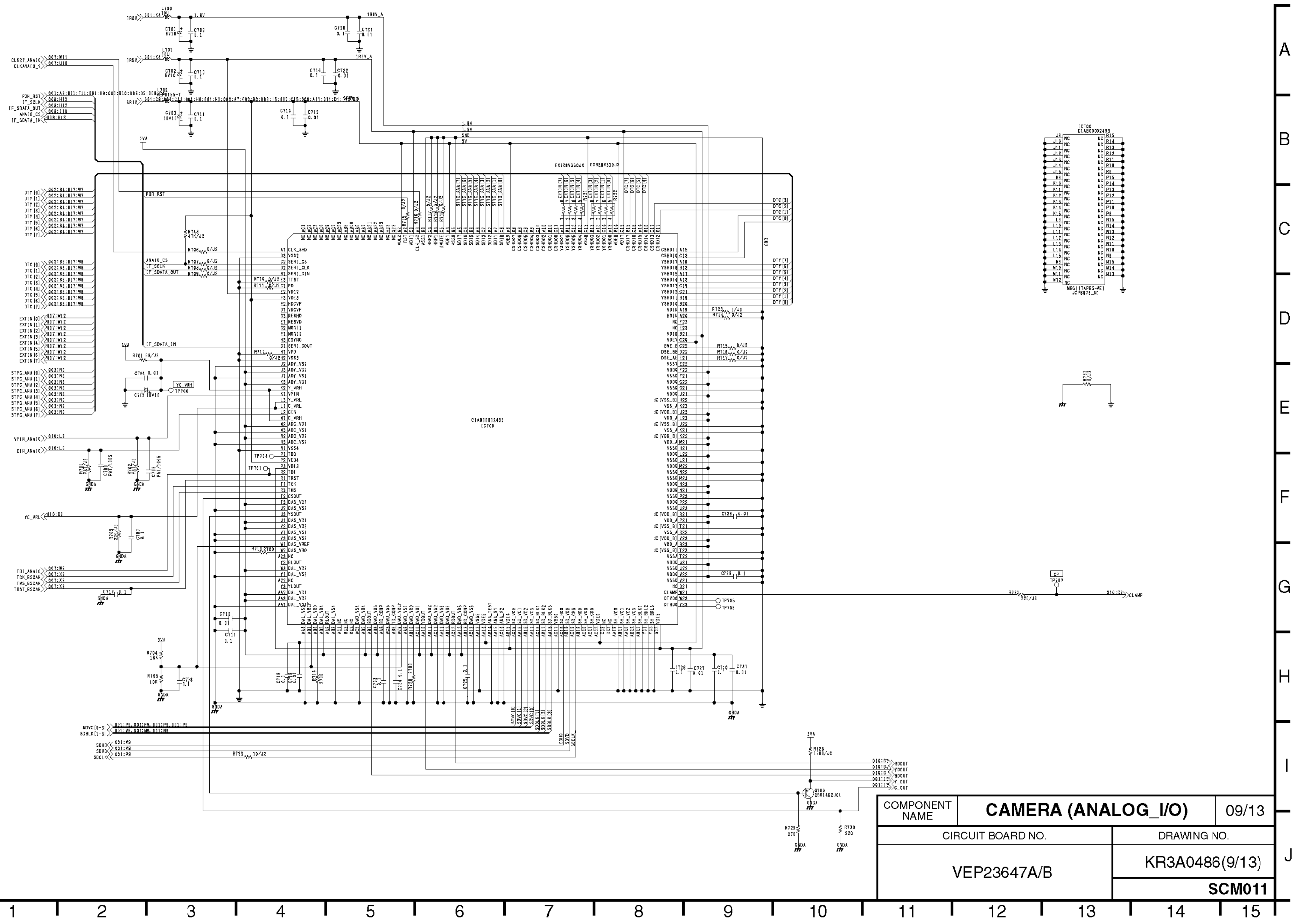
COMPONENT NAME	CAMERA (uCON)	08/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP23647A/B		KR3A0486(8/13)
		SCM010


A
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F
G
H
I
J
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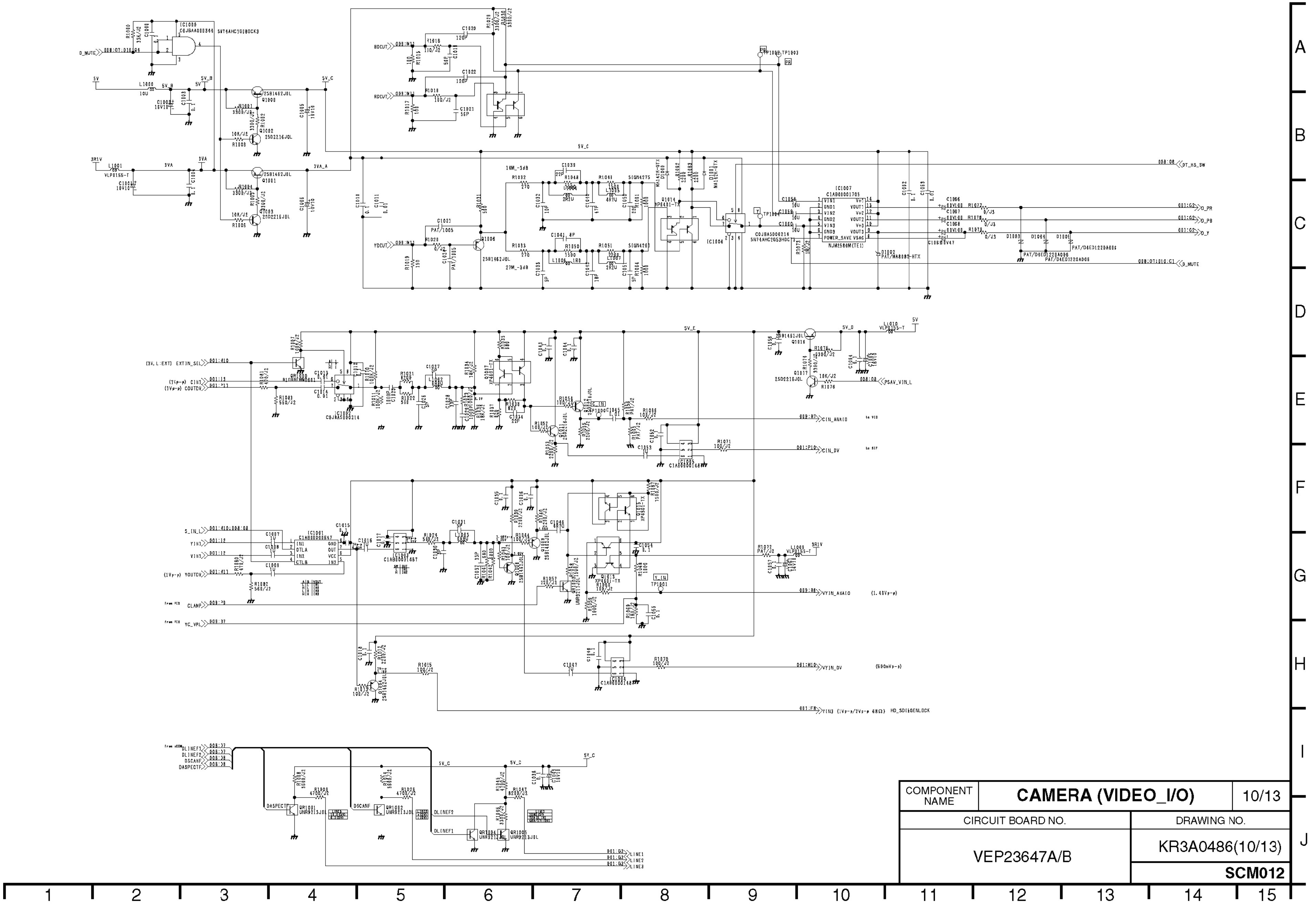
11
12
13
14
15
C1AB00002493
IC700
EXB28V330JX
MBG1J7AP85-ME1
JCP8078_NC
Q100
TP704
TP701
TP706
TP707
TP705
TP708
YC_VRH
CP
CLAMP
R_OUT
B_OUT
Y_OUT
C_OUT
SDVC[0-3]
SDBLK[1-3]
SDHD
SDVD
SDCLK
CLK27_ANA10
CLKANA10_2
POR_RST
IF_SCLK
IF_SDATA_OUT
ANA10_CS
IF_SDATA_IN
VYIN_ANA10
CIN_ANA10
YC_VRL
TDI_ANA10
TCK_BSCAN
TMS_BSCAN
TRST_BSCAN
1R8V
1R5V
5R1V
3VA
GNDA
GND
1.8V
1.5V
3V

COMPONENT NAME	CAMERA (ANALOG_I/O)	09/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP23647A/B	KR3A0486(9/13)	
	SCM011	


D_MUTE
5V
3R1V
5V_C
3VA_A
BDOUT
RDOUT
YDOUT
IC1007
NJM2580M(TE1)
IC1006
IC1009
DT_HS_SW
D_PR
D_PB
D_Y
D_MUTE
5V_E
5V_D
PSAV_VIN_L
EXTIN_SEL
CIN
COUTDV
CIN_ANAIO
CIN_DV
S_IN_L
YIN1
VIN1
YOUTDV
CLAMP
YC_VRL
IC1001
VYIN_ANAIO
VYIN_DV
HD_SDI&GENLOCK
DLINEF1
DLINEF2
DSCANF
DASPECTF
LINE1
LINE2
LINE3
A
B
C
D
E
F
G
H
I
J
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3
4
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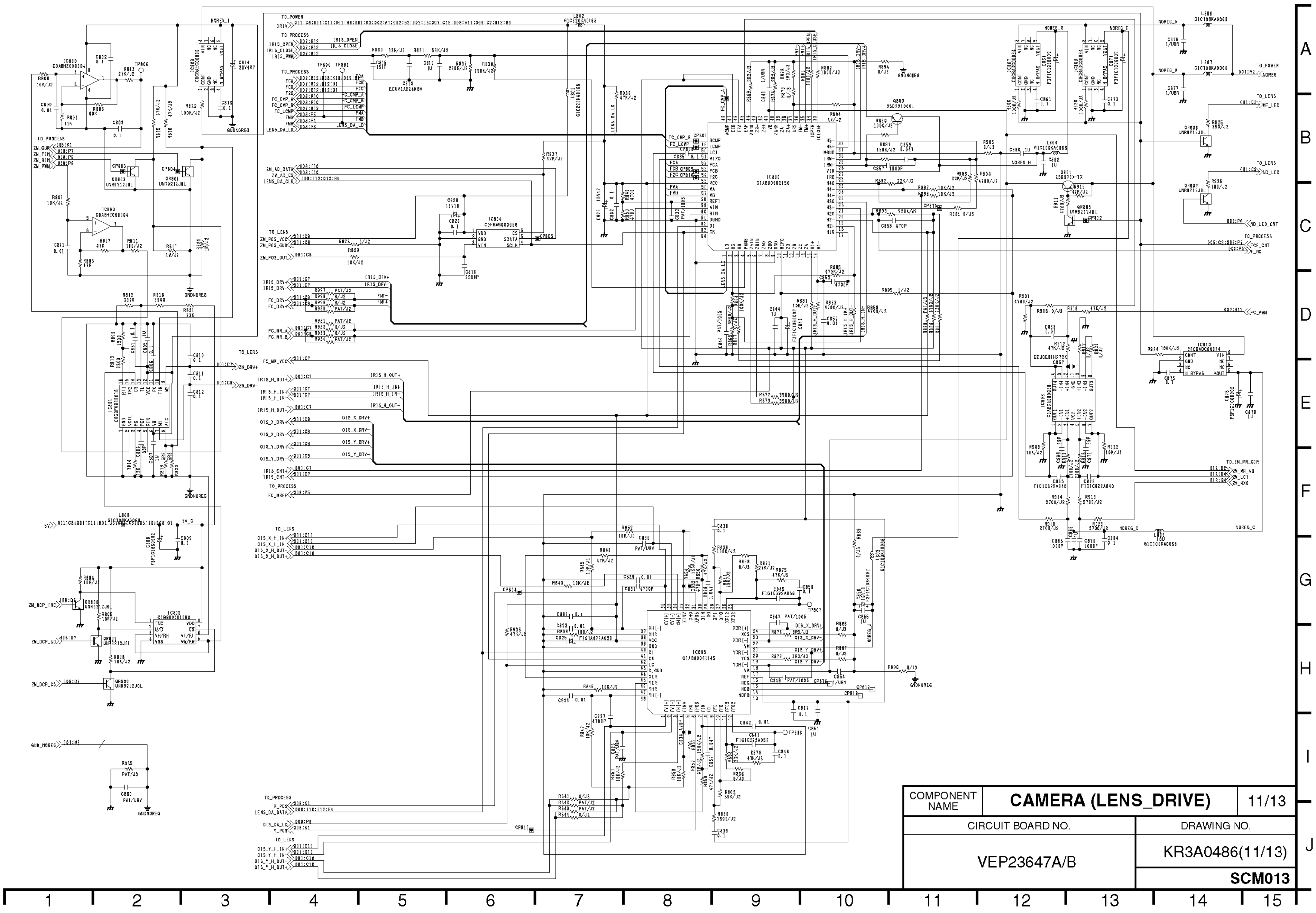
COMPONENT NAME	CAMERA (VIDEO_I/O)	10/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP23647A/B		KR3A0486(10/13)
		SCM012


A
B
C
D
E
F
G
H
I
J
1
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3
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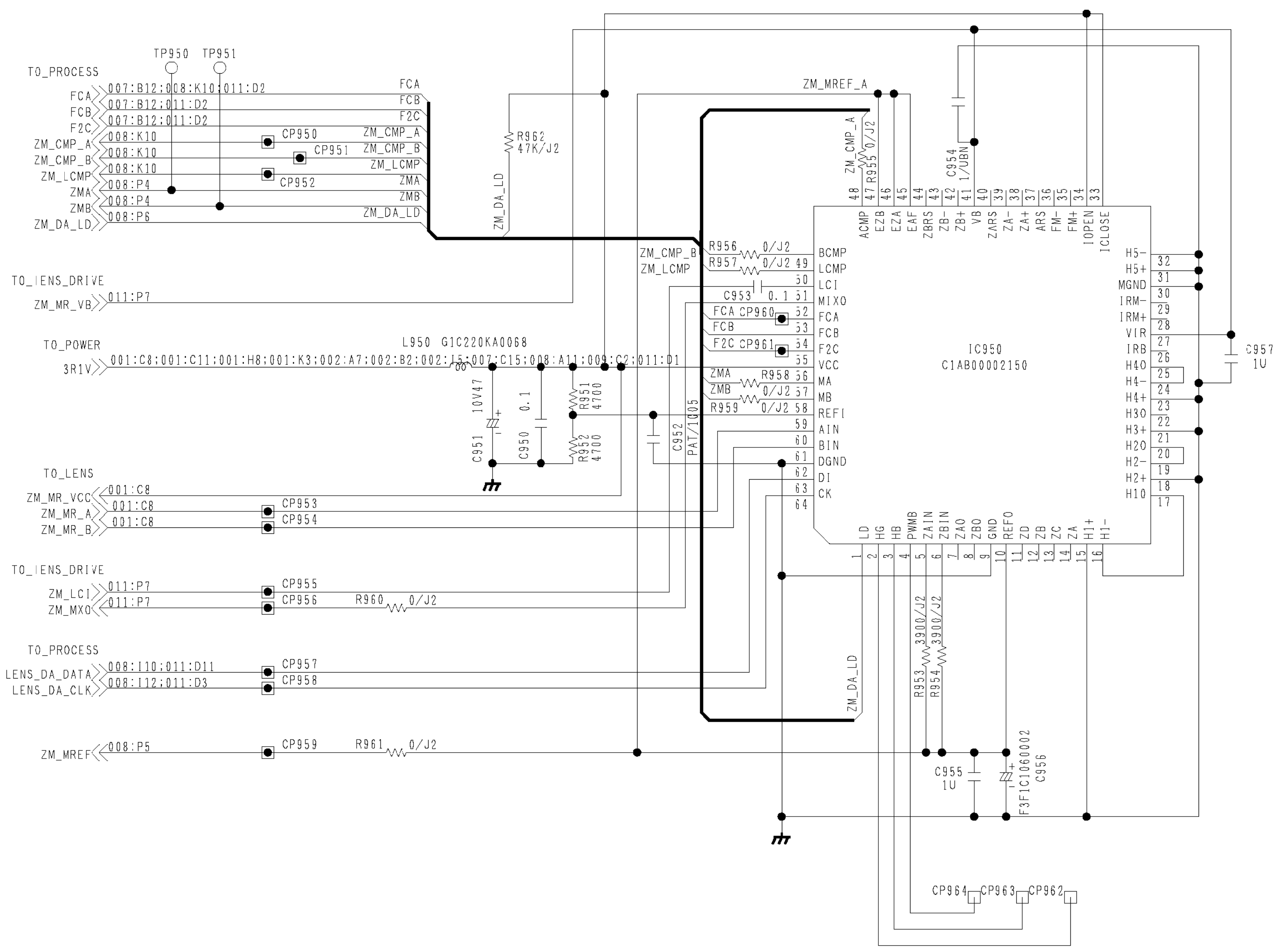
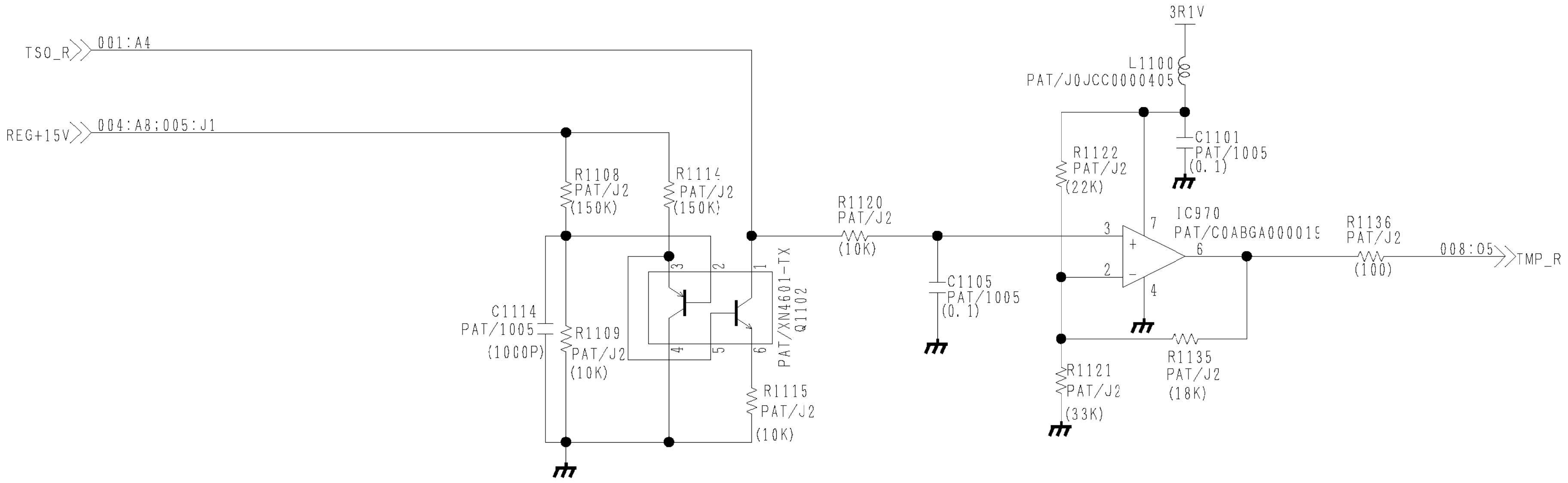
5
6
7
8
9
10
11
12
13
14
15
IC800
C0ABHZ000004
IC803
C0CBADC00004
IC804
C0FBAG000066
IC806
C1AB00002150
IC805
C1AB00001145
IC801
C0GBF0000016
IC802
C1BB00001080
IC807
C0CBADC00034
IC809
C0CBADC00034
IC808
C0ABCA000008
IC810
C0CBADC00034
Q800
2SD2216000L
Q801
2SB0709-TX
TO_POWER
TO_PROCESS
TO_LENS
NOREG_A
NOREG_B
GNDNOREG
TO_ZM_MR_CIR
ZM_DCP_INC
ZM_DCP_UD
ZM_DCP_CS
GND_NOREG
5V
3R1V
FC_PWM
MF_LED
ND_LED
ND_LED_CNT
FCP_CNT
Y_ND
IRIS_OPEN
IRIS_CLOSE
IRIS_PWM
IRIS_DRV+
IRIS_DRV-
IRIS_H_OUT+
IRIS_H_IN+
IRIS_H_IN-
IRIS_H_OUT-
IRIS_CNT+
IRIS_CNT-
FC_DRV-
FC_DRV+
FC_MR_A
FC_MR_B
FC_MR_VCC
FC_MREF
FC_CMP_A
FC_CMP_B
FC_LCMP
FMA
FMB
FCA
FCB
FCC
ZM_AD_DATA
ZM_AD_CS
LENS_DA_CLK
LENS_DA_LD
LENS_DA_DATA
ZM_POS_VCC
ZM_POS_GND
ZM_POS_OUT
ZM_CUR
ZM_FIN
ZM_RIN
ZM_PWM
ZM_DRV+
ZM_DRV-
ZM_MR_VB
ZM_LCI
ZM_WXO
OIS_X_DRV+
OIS_X_DRV-
OIS_Y_DRV+
OIS_Y_DRV-
OIS_X_H_IN+
OIS_X_H_IN-
OIS_X_H_OUT-
OIS_X_H_OUT+
OIS_Y_H_IN+
OIS_Y_H_IN-
OIS_Y_H_OUT-
OIS_Y_H_OUT+
X_POS
Y_POS
OIS_DA_LD

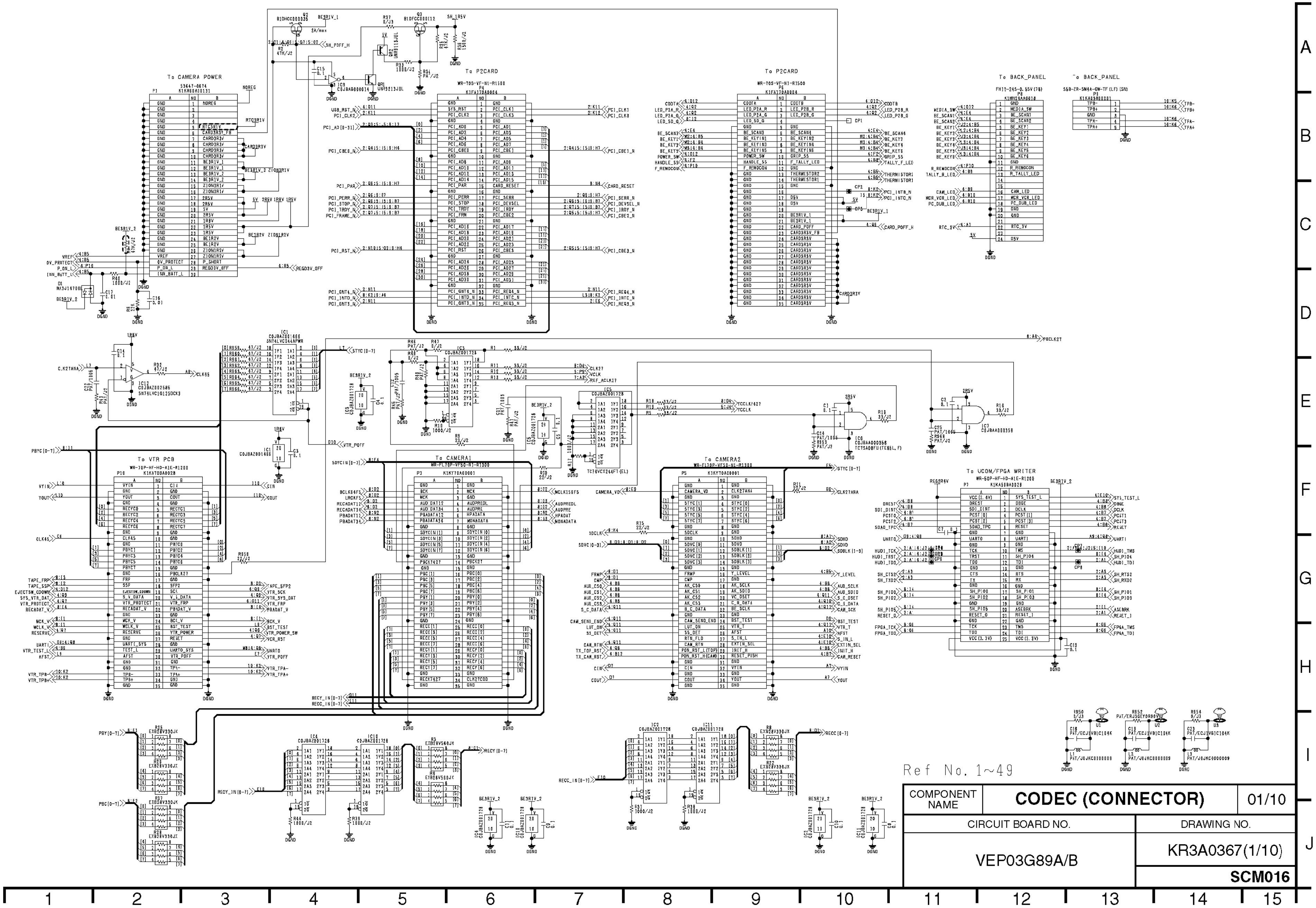
COMPONENT NAME	CAMERA (LENS_DRIVE)	11/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP23647A/B		KR3A0486(11/13)
		SCM013


TO_PROCESS
TP950
TP951
FCA 007:B12;008:K10;011:D2
FCB 007:B12;011:D2
F2C 007:B12;011:D2
ZM_CMP_A 008:K10
ZM_CMP_B 008:K10
ZM_LCMP 008:K10
ZMA 008:P4
ZMB 008:P4
ZM_DA_LD 008:P6
CP950
CP951
CP952
TO_LENS_DRIVE
ZM_MR_VB 011:P7
TO_POWER
3R1V 001:C8;001:C11;001:H8;001:K3;002:A7;002:B2;002:J5;007:C15;008:A11;009:C2;011:D1
L950 G1C220KA0068
C951 10V47
C950 0.1
R951 4700
R952 4700
C952 PAT/1005
TO_LENS
ZM_MR_VCC 001:C8
ZM_MR_A 001:C8
ZM_MR_B 001:C8
CP953
CP954
TO_LENS_DRIVE
ZM_LCI 011:P7
ZM_MXO 011:P7
CP955
CP956
R960 0/J2
TO_PROCESS
LENS_DA_DATA 008:I10;011:D11
LENS_DA_CLK 008:I12;011:D3
CP957
CP958
ZM_MREF 008:P5
CP959
R961 0/J2
R962 47K/J2
ZM_DA_LD
ZM_MREF_A
ZM_CMP_A
R955 0/J2
C954 1/UBN
ZM_CMP_B
ZM_LCMP
R956 0/J2
R957 0/J2
C953 0.1
FCA CP960
FCB
F2C CP961
ZMA R958 0/J2
ZMB
R959 0/J2
IC950
C1AB00002150
48 ACMP
47 EZB
46 EZA
45 EAF
44 ZBRS
43 ZB-
42 ZB+
41 VB
40 ZARS
39 ZA-
38 ZA+
37 ARS
36 FM-
35 FM+
34 IOPEN
33 ICLOSE
49 BCMP
50 LCMP
51 LCI
52 MIXO
53 FCA
54 FCB
55 F2C
56 VCC
57 MA
58 MB
59 REFI
60 AIN
61 BIN
62 DGND
63 DI
64 CK
32 H5-
31 H5+
30 MGND
29 IRM-
28 IRM+
27 VIR
26 IRB
25 H40
24 H4-
23 H4+
22 H30
21 H3+
20 H20
19 H2-
18 H2+
17 H10
1 LD
2 HG
3 HB
4 PWMB
5 ZAIN
6 ZBIN
7 ZAO
8 ZBO
9 GND
10 REFO
11 ZD
12 ZB
13 ZC
14 ZA
15 H1+
16 H1-
C957 1U
R953 3900/J2
R954 3900/J2
C955 1U
C956 F3F1C1060002
CP964
CP963
CP962
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

COMPONENT NAME	CAMERA (ZM_MR_IF)	12/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP23647A/B		KR3A0486(12/13)
		SCM014

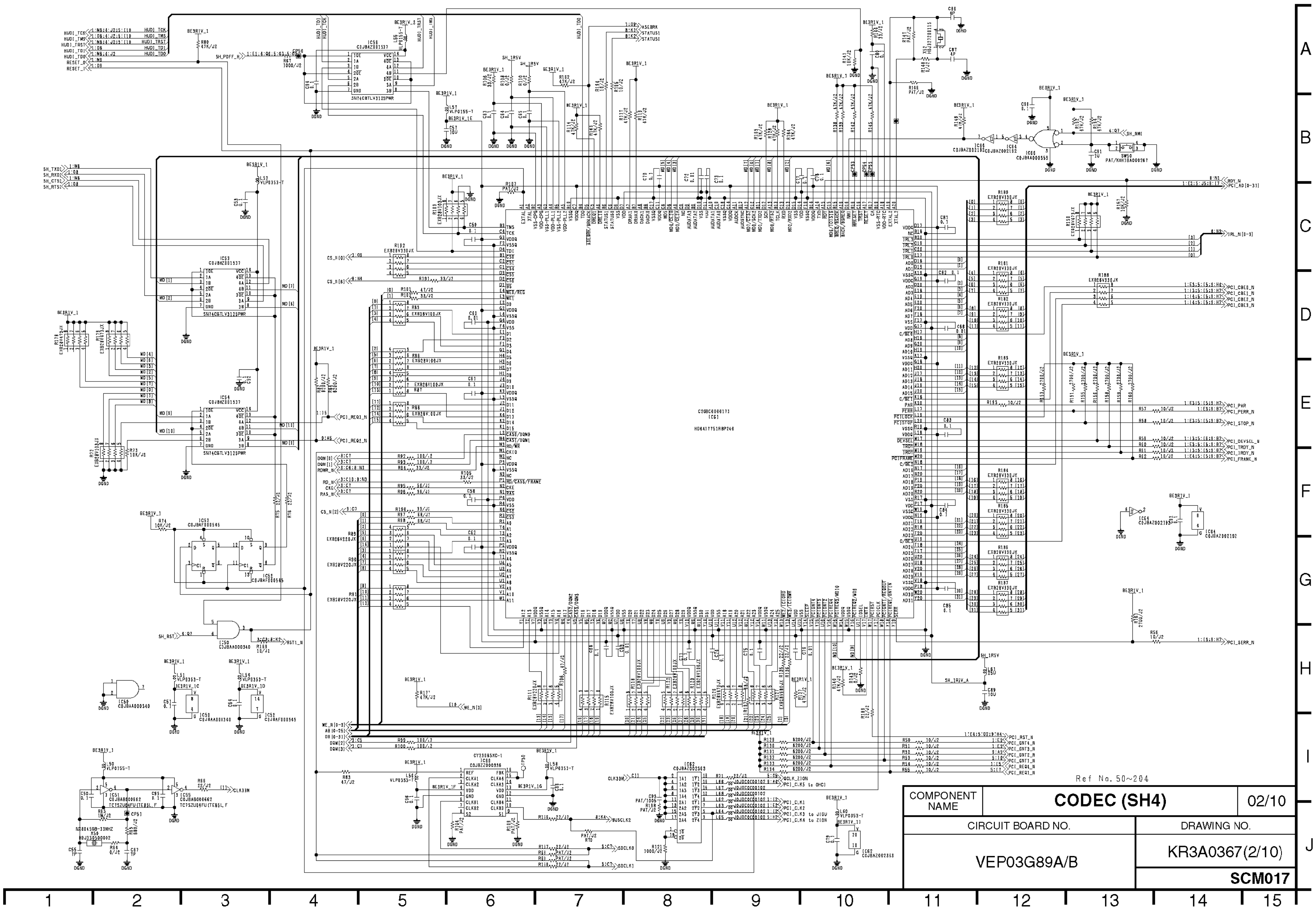

TSO_R
001:A4
REG+15V
004:A8;005:J1
R1108
PAT/J2
(150K)
R1114
PAT/J2
(150K)
C1114
PAT/1005
(1000P)
R1109
PAT/J2
(10K)
3
2
1
4
5
6
PAT/XN4601-TX
Q1102
R1115
PAT/J2
(10K)
R1120
PAT/J2
(10K)
C1105
PAT/1005
(0.1)
3R1V
L1100
PAT/J0JCC0000405
C1101
PAT/1005
(0.1)
R1122
PAT/J2
(22K)
IC970
PAT/C0ABGA00001
3
2
7
4
6
+
-
R1121
PAT/J2
(33K)
R1135
PAT/J2
(18K)
R1136
PAT/J2
(100)
008:05
TMP_R

COMPONENT NAME	CAMERA (TMP_OUT)	13/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP23647A/B		KR3A0486(13/13)
		SCM015


To CAMERA POWER
To P2CARD
To P2CARD
To BACK_PANEL
To BACK_PANEL
To VTR PCB
To CAMERA1
To CAMERA2
To UCOM/FPGA WRITER
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

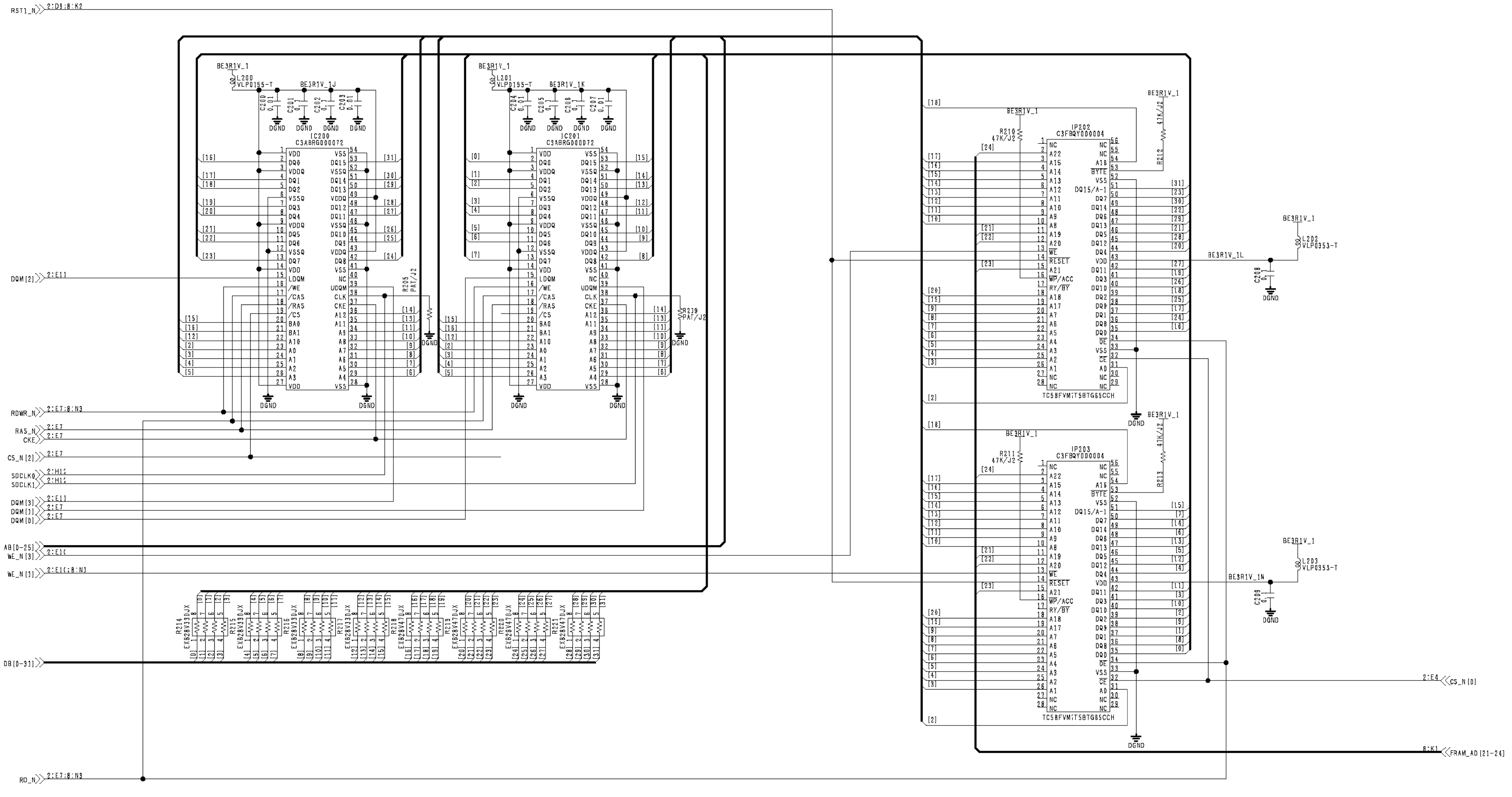
Ref No. 1~49

COMPONENT NAME	CODEC (CONNECTOR)	01/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G89A/B	KR3A0367(1/10)	
	SCM016	


A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
C0DBC000171
IC61
HD6417751RBP240
IC56
C0JBAZ001537
SN74CBTLV3125PWR
IC53
C0JBAZ001537
SN74CBTLV3125PWR
IC54
C0JBAZ001537
SN74CBTLV3125PWR
IC60
CY23EP05XC-1
IC62
C0JBAZ002363
IC66
C0JBAA000555
SW50
PAT/KHH3BA000767
HUDI_TCK
HUDI_TMS
HUDI_TRST
HUDI_TDI
HUDI_TDO
RESET_O
RESET_I
SH_TXD
SH_RXD
SH_CTS
SH_RTS
SH_NMI
SH_RST
PCI_AD[0-31]
IRL_N[0-3]
PCI_CBE0_N
PCI_CBE1_N
PCI_CBE2_N
PCI_CBE3_N
PCI_PAR
PCI_PERR_N
PCI_STOP_N
PCI_DEVSEL_N
PCI_TRDY_N
PCI_IRDY_N
PCI_FRAME_N
PCI_SERR_N
PCI_RST_N
PCI_GNT4_N
PCI_GNT3_N
PCI_GNT2_N
PCI_GNT1_N
PCI_REQ1_N
PCI_CLK1
PCI_CLK2
PCI_CLK3 to JIGU
PCI_CLK4 to ZION
PCI_CLK5 to OHCI
SDCLK0
SDCLK1
BUSCLK2
CLK33M
DGND

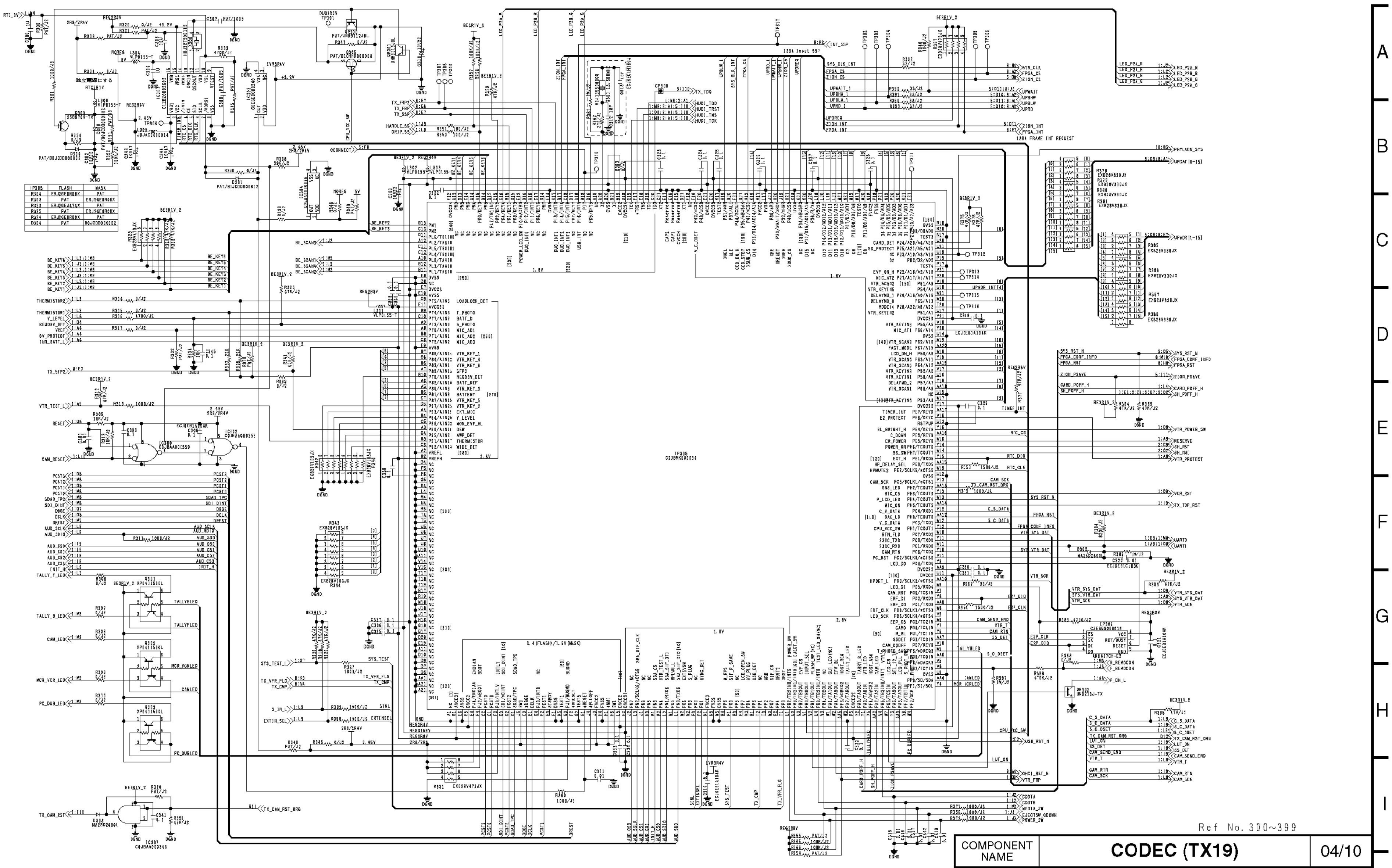
Ref No. 50~204

COMPONENT NAME	CODEC (SH4)	02/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G89A/B	KR3A0367(2/10)	
	SCM017	


RST1_N 2:D3:8:K2
DQM[2] 2:E11
RDWR_N 2:E7:8:N3
RAS_N 2:E7
CKE 2:E7
CS_N[2] 2:E7
SDCLK0 2:H12
SDCLK1 2:H12
DQM[3] 2:E11
DQM[1] 2:E7
DQM[0] 2:E7
AB[0-25] 2:E1(
WE_N[3] 2:E1(
WE_N[1] 2:E1(:8:N1
DB[0-31]
RD_N 2:E7:8:N3
BE3R1V_1
L200 VLP0155-T
BE3R1V_1J
C200 C201 C202 C203
DGND
IC200 C3ABRGD00072
L201 VLP0155-T
BE3R1V_1K
C204 C205 C206 C207
IC201 C3ABRGD00072
R205 PAT/J2
R239 PAT/J2
R214 EXB28V330JX
R215 EXB28V330JX
R216 EXB28V330JX
R217 EXB28V330JX
R218 EXB28V470JX
R219 EXB28V470JX
R220 EXB28V470JX
R221 EXB28V470JX
IP202 C3FBQY000004
TC58FVM1T5BTG65CCH
R210 47K/J2
R212 47K/J2
L202 VLP0353-T
BE3R1V_1L
C208
IP203 C3FBQY000004
R211 47K/J2
R213 47K/J2
L203 VLP0353-T
BE3R1V_1N
C209
2:E4 CS_N[0]
8:K1 FRAM_AD[21-24]
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Ref No. 205~299

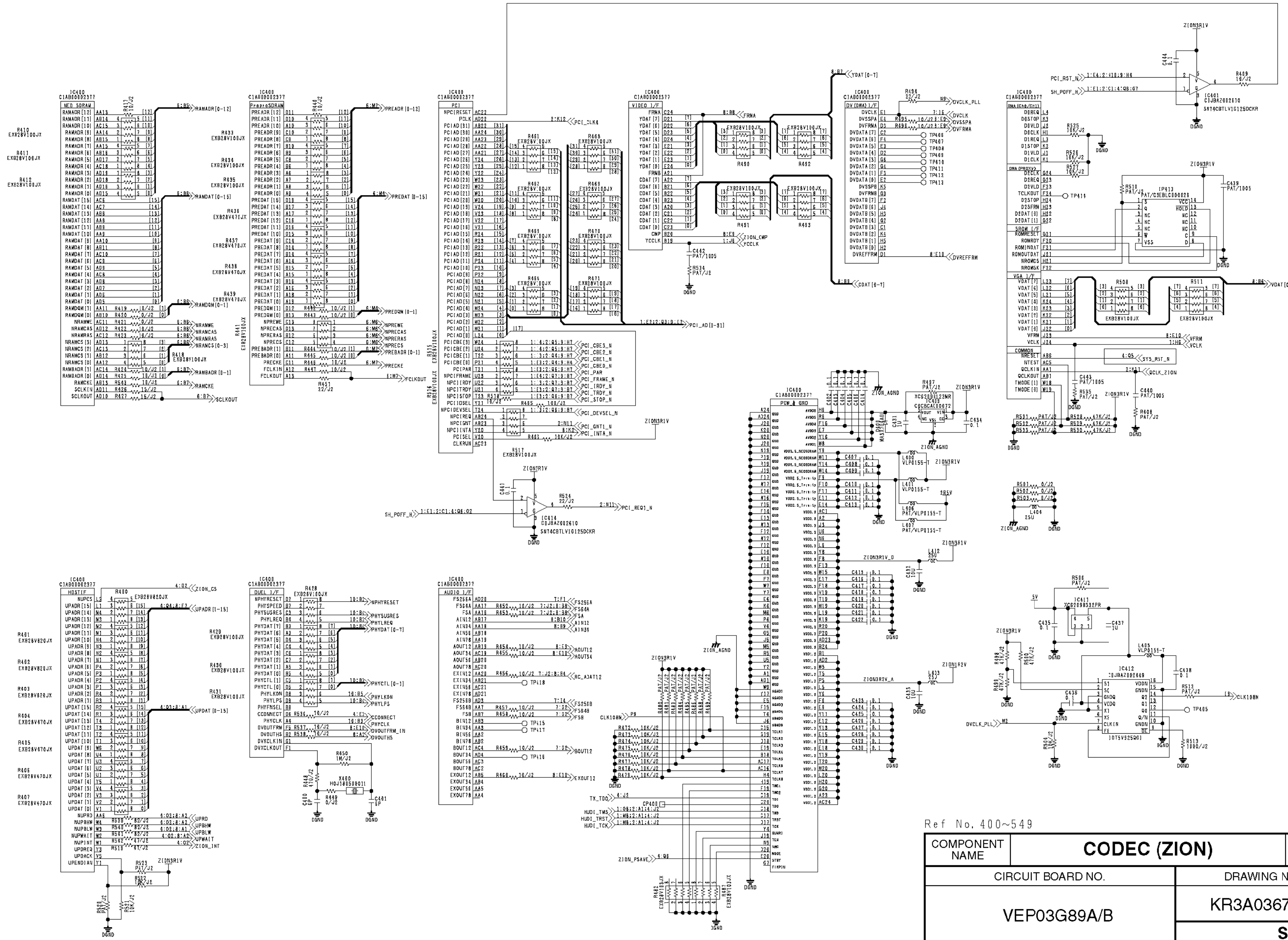
COMPONENT NAME	CODEC (SH4-MEMORY)	03/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G89A/B	KR3A0367(3/10)	
	SCM018	


IP305
C3DBMK000034
IC302
IC303
IC304
IC307
IP301
Q301
Q302
Q303
RTC_3V
REG28V
REG18V
BE3R1V_2
DGND
BE_KEY1
BE_KEY2
BE_KEY3
BE_KEY4
BE_KEY5
BE_KEY6
THERMISTOR2
THERMISTOR1
Y_LEVEL
REG35V_EFP
VREF
OV_PROTECT
EW_BATT_L
TX_SFP2
VTR_TEST_L
RESET
CAM_RESET
PCST3
PCST2
PCST1
PCST0
SDAO_TPC
SDI_DINT
DBGE
DCLK
DRESET
AUD_SCLK
AUD_SDIO
AUD_CS0
AUD_CS1
AUD_CS2
AUD_CS3
INIT_H
TALLY_F_LED
TALLY_B_LED
CAM_LED
MCR_VCR_LED
PC_DUB_LED
TX_CAM_RST
SYS_TEST_L
TX_VFR_FLG
TX_CMP
S_IN_L
EXTIN_SEL
TX_FRP
TX_FRP
TX_SSP
HANDLE_SS
GRIP_SS
CCONNECT
CPU_VCC_SW
LED_P2A_R
LED_P2A_G
LED_P2B_R
LED_P2B_G
SYS_CLK
FPGA_CS
ZION_CS
UPWAIT
UPBHW
UPBLW
UPRD
ZION_INT
ZION_INT
1394 FRAME INT REQUEST
1394 Input SSP
INT_1SP
TX_TDO
HUDI_TDO
HUDI_TRST
HUDI_TMS
HUDI_TCK
PHYLKON_SYS
UPDAT[0-15]
UPADR[1-15]
SYS_RST_N
FPGA_CONF_INFO
FPGA_RST
ZION_PSAVE
CARD_PDFF_H
SH_PDFF_H
VTR_POWER_SW
RESERVE
SH_RST
SH_RW
VTR_PROTECT
MCR_RST
TX_TOP_RST
UART0
UART1
VTR_SYS_DAT
VTR_VFR_DAT
VTR_SCK
R_REMOCON
F_REMOCON
P_ON_L
C_S_DATA
S_C_DATA
S_C_DSET
C_S_SET
TX_CAM_RST_ORG
LUT_ON
SS_DET
CAM_SEND_END
VTR_T
CAM_RTN
CAM_SCK
USB_RST_N
OHCI_RST_N
VTR_FRP
CDOTA
CDOTB
MEDIA_SW
EJECTSW_CDOWN
POWER_SW
EVR18V
EVR28V
1.8V
2.8V
3.4(FLASH)/3.8V(MASK)

IP305	FLASH	MASK
R304	ERJ2GE0R00X	PAT
R303	PAT	ERJ2GE0R00X
R333	ERJ2GEJ474X	PAT
R335	PAT	ERJ2GE0R00X
R324	ERJ2GE0R00X	PAT
D304	PAT	B0JCDD000002

Ref No. 300~399

COMPONENT NAME	CODEC (TX19)	04/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G89A/B	KR3A0367(4/10)	
	SCM019	


IC400 C1AB00002377 NEO SDRAM
IC400 C1AB00002377 PreproSDRAM
IC400 C1AB00002377 PCI
IC400 C1AB00002377 VIDEO I/F
IC400 C1AB00002377 DV(DMA) I/F
IC400 C1AB00002377 DMA(Ch0/Ch1)
IC400 C1AB00002377 HOSTIF
IC400 C1AB00002377 DUEL I/F
IC400 C1AB00002377 AUDIO I/F
IC400 C1AB00002377 POW & GND
IC401 C0JBAZ002610 SN74CBTLV1G125DCKR
IC414 C0JBAZ002610 SN74CBTLV1G125DCKR
IC412 C0JBAZ002449 IDT5V925QGI
IP413 PAT/C3EBLC000028
IC411 XC62098332PR
ZION3R1V
DGND
ZION_AGND
PCI_RST_N
SH_POFF_H
PCI_AD[0-31]
PCI_REQ1_N
VDAT[0-7]
YDAT[0-7]
CDAT[0-7]
DVCLK_PLL
CLK108M
ZION_PSAVE
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
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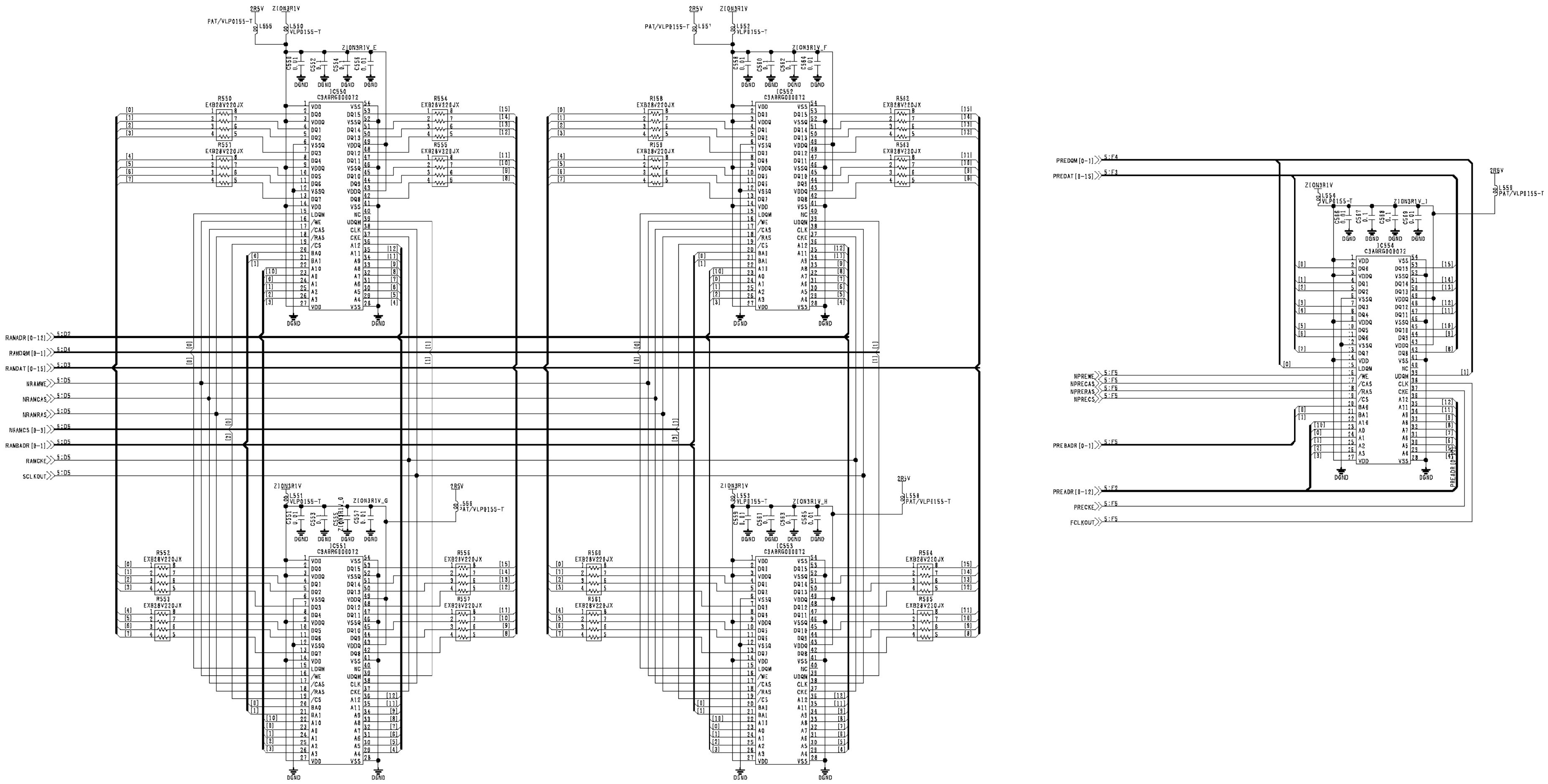
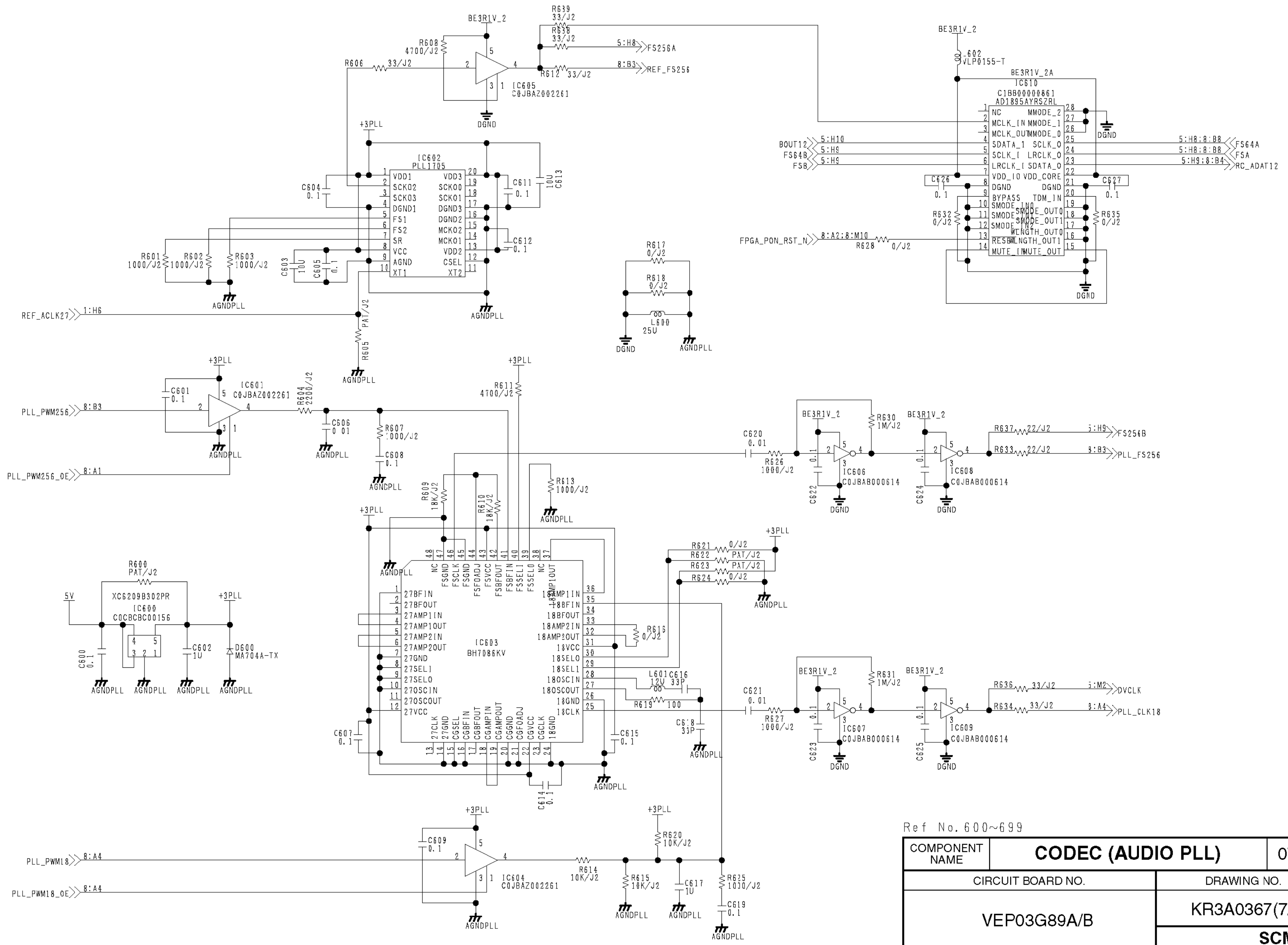
Ref No. 400~549

COMPONENT NAME	CODEC (ZION)	05/10
CIRCUIT BOARD NO.		DRAWING NO.
VEP03G89A/B		KR3A0367(5/10)
		SCM020


RAMADR[0-12] 4:D2
RAMDQM[0-1] 4:D4
RAMDAT[0-15] 4:D3
NRAMWE 4:D5
NRAMCAS 4:D5
NRAMRAS 4:D5
NRAMCS[0-3] 4:D5
RAMBADR[0-1] 4:D5
RAMCKE 4:D5
SCLKOUT 4:D5
IC550 C3ABRG000072
IC551 C3ABRG000072
IC552 C3ABRG000072
IC553 C3ABRG000072
IC554 C3ABRG000072
2R5V
ZION3R1V
DGND
EXB28V220JX
PAT/VLP0155-T
PREDQM[0-1] 5:F4
PREDAT[0-15] 5:F3
NPREWE 5:F5
NPRECAS 5:F5
NPRERAS 5:F5
NPRECS 5:F5
PREBADR[0-1] 5:F5
PREADR[0-12] 5:F2
PRECKE 5:F5
FCLKOUT 5:F5

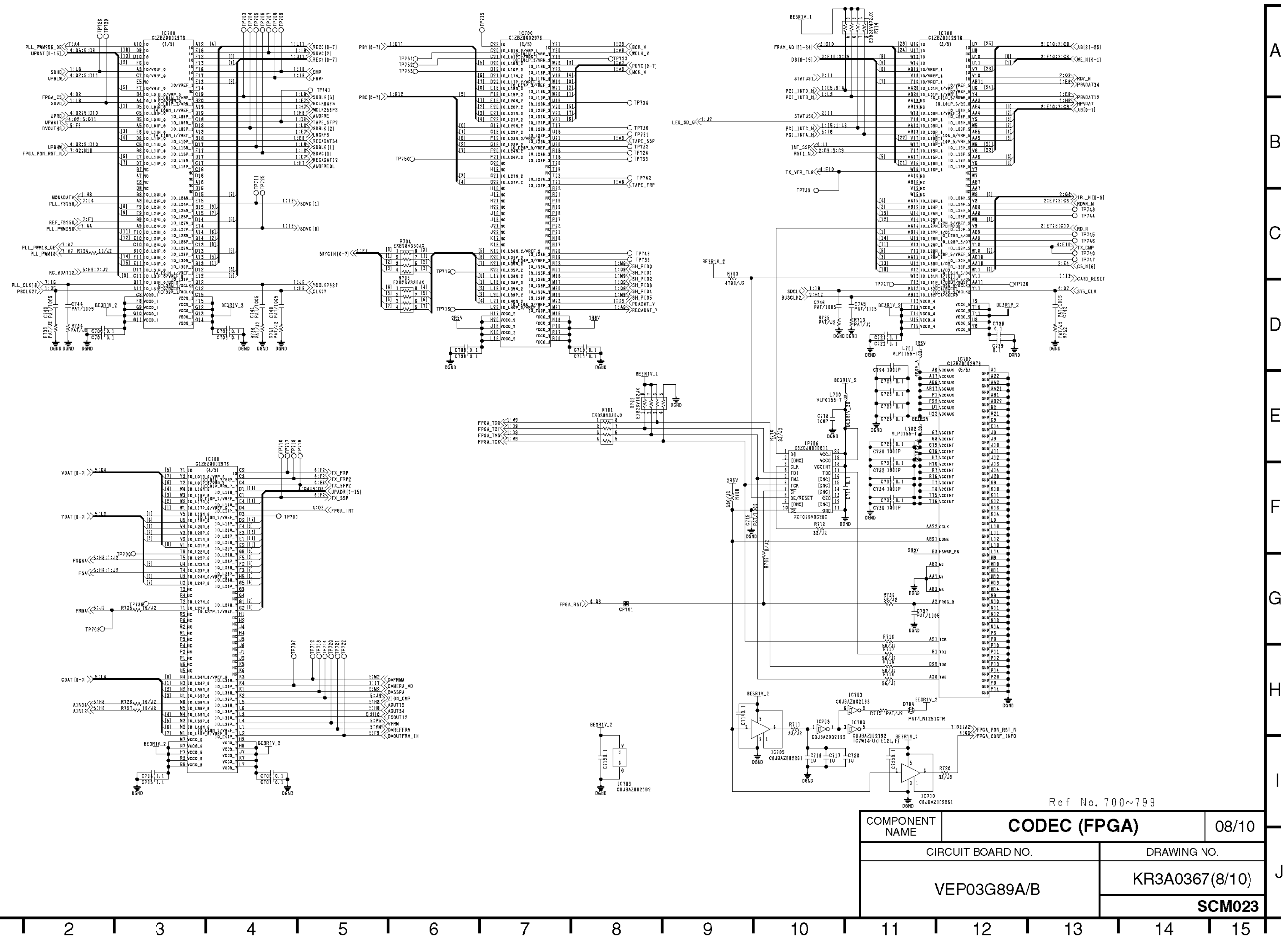
Ref No. 550~599

COMPONENT NAME	CODEC (ZION-SDRAM)	06/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G89A/B	KR3A0367(6/10)	
	SCM021	


IC605
C0JBAZ002261
IC602
PLL1705
IC610
C1BB00000861
AD1895AYRSZRL
IC601
C0JBAZ002261
IC603
BH7086KV
IC600
C0CBCBC00156
XC6209B302PR
IC604
C0JBAZ002261
IC606
C0JBAB000614
IC607
C0JBAB000614
IC608
C0JBAB000614
IC609
C0JBAB000614
L600
25U
L601
12U
D600
MA704A-TX
L602
VLP0155-T
BE3R1V_2
BE3R1V_2A
+3PLL
5V
DGND
AGNDPLL
REF_ACLK27
1:H6
PLL_PWM256
8:B3
PLL_PWM256_OE
8:A1
PLL_PWM18
8:A4
PLL_PWM18_OE
8:A4
FS256A
5:H8
REF_FS256
8:B3
BOUT12
5:H10
FS64B
5:H9
FSB
5:H9
FS64A
5:H8:8:B8
FSA
5:H8:8:B8
RC_ADAT12
5:H9:8:B4
FPGA_PON_RST_N
8:A2:8:M10
FS256B
5:H9
PLL_FS256
8:B3
DVCLK
5:M2
PLL_CLK18
8:A4
R600 PAT/J2
R601 1000/J2
R602 1000/J2
R603 1000/J2
R604 2200/J2
R605 PAT/J2
R606 33/J2
R607 1000/J2
R608 4700/J2
R609 18K/J2
R610 18K/J2
R611 4700/J2
R612 33/J2
R613 1000/J2
R614 10K/J2
R615 10K/J2
R616 0/J2
R617 0/J2
R618 0/J2
R619 100
R620 10K/J2
R621 0/J2
R622 PAT/J2
R623 PAT/J2
R624 0/J2
R625 1030/J2
R626 1000/J2
R627 1000/J2
R628 0/J2
R630 1M/J2
R631 1M/J2
R632 0/J2
R633 22/J2
R634 33/J2
R635 0/J2
R636 33/J2
R637 22/J2
R638 33/J2
R639 33/J2
C600 0.1
C601 0.1
C602 1U
C603 10U
C604 0.1
C605 0.1
C606 0.01
C607 0.1
C608 0.1
C609 0.1
C611 0.1
C612 0.1
C613 10U
C614 0.1
C615 0.1
C616 33P
C617 1U
C618 33P
C619 0.1
C620 0.01
C621 0.01
C622 0.1
C623 0.1
C624 0.1
C625 0.1
C626 0.1
C627 0.1

Ref No. 600~699

COMPONENT NAME	CODEC (AUDIO PLL)	07/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G89A/B	KR3A0367(7/10)	
	SCM022	


IC700
C1ZBZ0002876
(1/5)
(2/5)
(3/5)
(4/5)
(5/5)
IC706
XCF02SVO020C
IC703
IC705
IC710
R701
EXB28V330JX
R704
R705
R714
L700
L701
L702
VLP0155-T
BE3R1V_2
DGND
2R5V
FPGA_TDO
FPGA_TDI
FPGA_TMS
FPGA_TCK
FPGA_RST
FPGA_PON_RST_N
FPGA_CONF_INFO
VDAT[0-7]
YDAT[0-7]
CDAT[0-7]
PBY[0-7]
PBC[0-7]
SBYCIN[0-7]
FRAM_AD[21-24]
DB[0-15]
LED_SD_G
A
B
C
D
E
F
G
H
I
J
1
2
3
4
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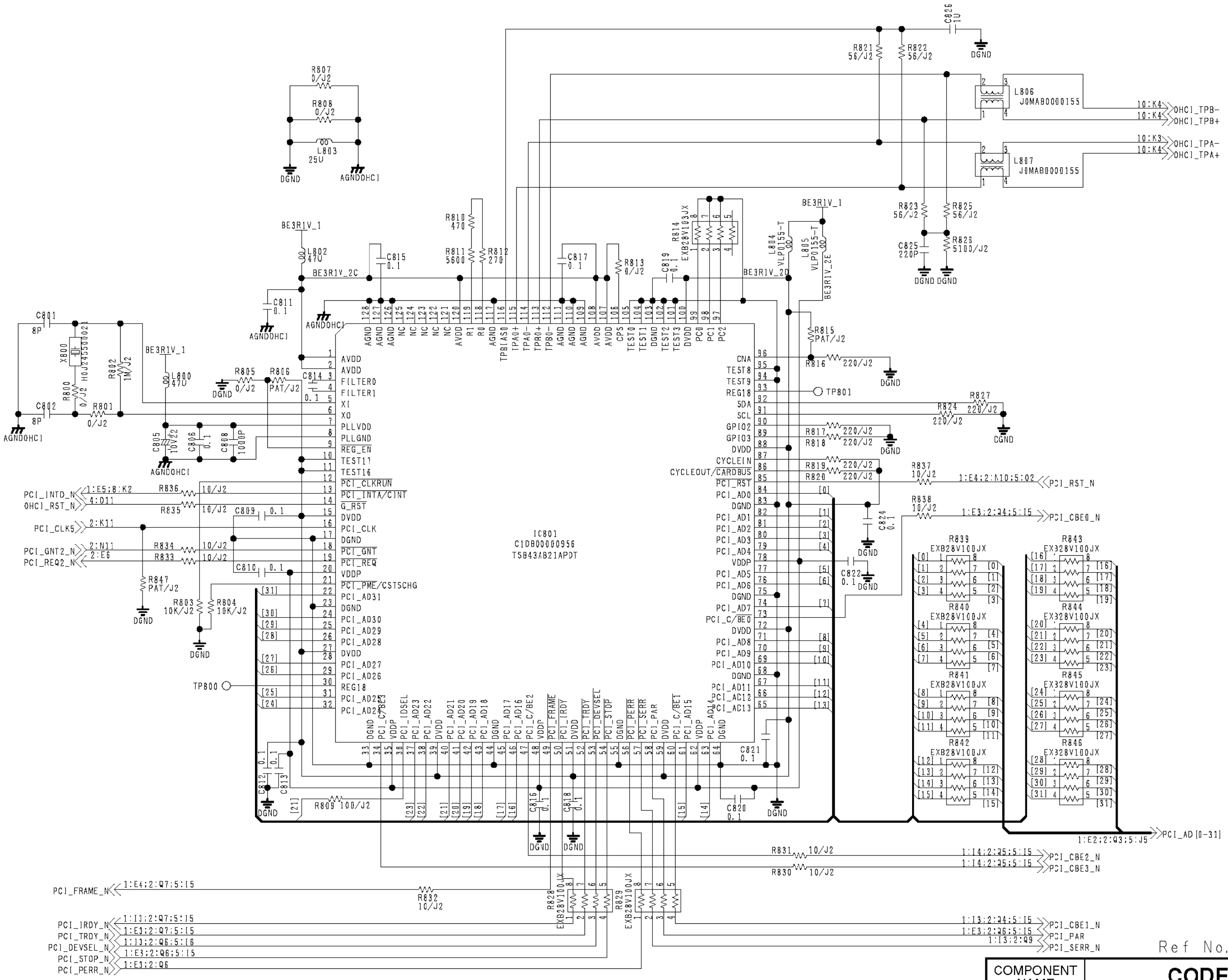
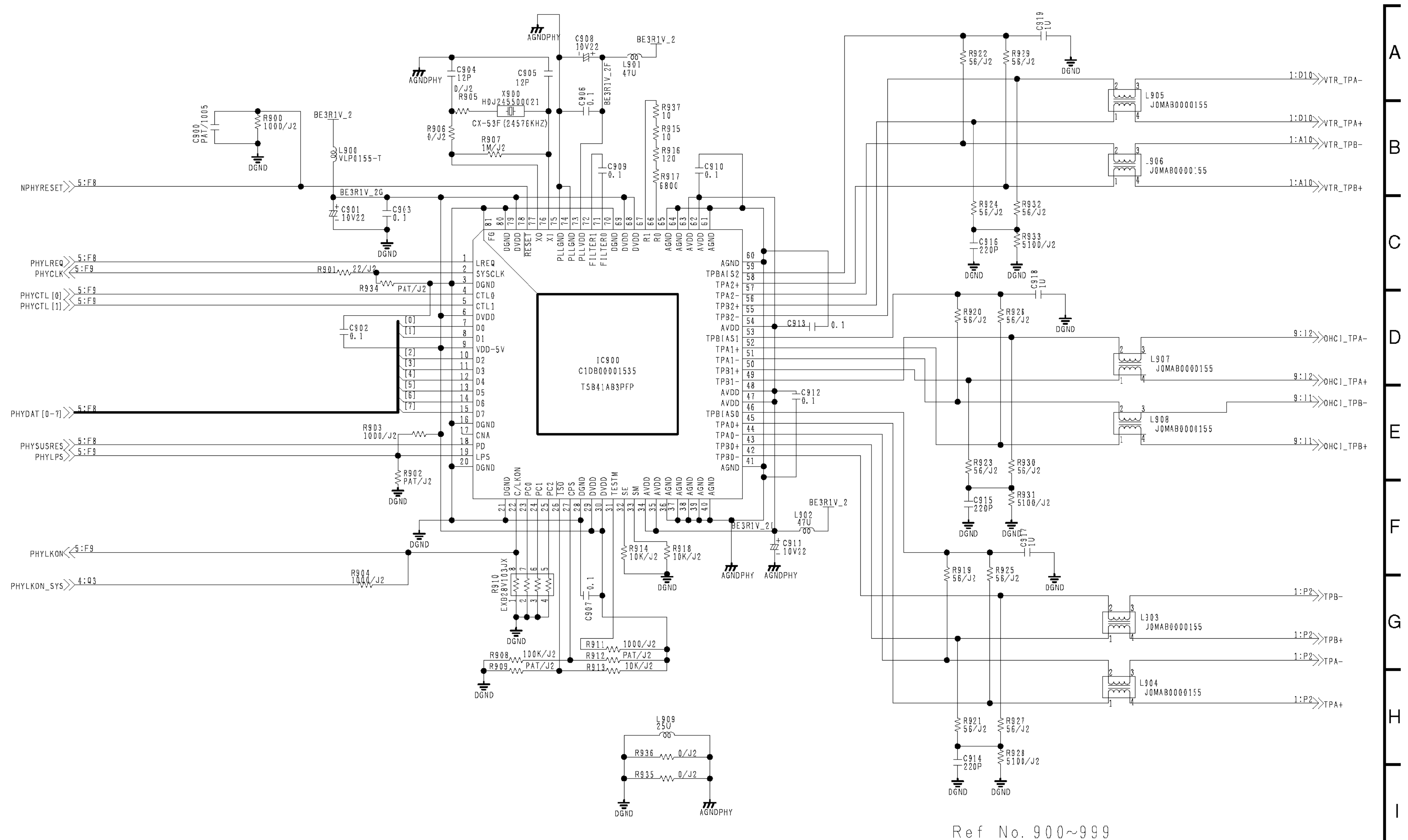
Ref No. 700~799

COMPONENT NAME	CODEC (FPGA)	08/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G89A/B	KR3A0367(8/10)	
	SCM023	


IC801
C1DB00000956
TSB43AB21APDT
X800
L800 47U
L802 47U
L803 25U
L804 VLP0155-T
L805 VLP0155-T
L806 J0MAB0000155
L807 J0MAB0000155
BE3R1V_1
BE3R1V_2C
BE3R1V_2D
BE3R1V_2E
AGNDOHCI
DGND
TP800
TP801
R814 EXB28V103JX
R828 EXB28V100JX
R829 EXB28V100JX
R839 EXB28V100JX
R840 EXB28V100JX
R841 EXB28V100JX
R842 EXB28V100JX
R843 EX328V100JX
R844 EX328V100JX
R845 EX328V100JX
R846 EX328V100JX
10:K4 OHCI_TPB-
10:K4 OHCI_TPB+
10:K3 OHCI_TPA-
10:K4 OHCI_TPA+
PCI_INTD_N 1:E5:8:K2
OHCI_RST_N 4:D11
PCI_CLK5 2:K11
PCI_GNT2_N 2:N11
PCI_REQ2_N 2:E6
1:E4:2:M10:5:D2 PCI_RST_N
1:E3:2:34:5:15 PCI_CBE0_N
1:E2:2:Q3:5:J5 PCI_AD[0-31]
1:I4:2:35:5:15 PCI_CBE2_N
1:I4:2:35:5:15 PCI_CBE3_N
PCI_FRAME_N 1:E4:2:Q7:5:15
PCI_IRDY_N 1:I3:2:Q7:5:15
PCI_TRDY_N 1:E3:2:Q7:5:15
PCI_DEVSEL_N 1:I3:2:Q6:5:16
PCI_STOP_N 1:E3:2:Q6:5:15
PCI_PERR_N 1:E3:2:Q6
1:I3:2:34:5:15 PCI_CBE1_N
1:E3:2:36:5:15 PCI_PAR
1:I3:2:Q9 PCI_SERR_N

Ref No. 800~899

COMPONENT NAME	CODEC (OHCI)	09/10
CIRCUIT BOARD NO.		DRAWING NO.
VEP03G89A/B		KR3A0367(9/10)
		SCM024


NPHYRESET
5:F8
PHYLREQ
PHYCLK
PHYCTL [0]
PHYCTL [1]
PHYDAT [0-7]
PHYSUSRES
PHYLPS
PHYLKON
PHYLKON_SYS
4:Q3
IC900
C1DB00001535
TSB41AB3PFP
LREQ
SYSCLK
DGND
CTL0
CTL1
DVDD
D0
D1
VDD-5V
D2
D3
D4
D5
D6
D7
CNA
PD
LPS
AGND
TPBIAS2
TPA2+
TPA2-
TPB2+
TPB2-
AVDD
TPBIAS1
TPA1+
TPA1-
TPB1+
TPB1-
TPBIAS0
TPA0+
TPA0-
TPB0+
TPB0-
C/LKON
PC0
PC1
PC2
ISO
CPS
TESTM
SE
SM
FG
RESET
XO
XI
PLLGND
PLLVDD
FILTER1
FILTER0
R1
R0
X900
HDJ245500021
CX-53F(24576KHZ)
C904 12P
C905 12P
R905 0/J2
R906 0/J2
R907 1M/J2
C908 10V22
L901 47U
C906 0.1
C909 0.1
C910 0.1
R937 10
R915 10
R916 120
R917 6800
BE3R1V_2
BE3R1V_2F
BE3R1V_2G
BE3R1V_21
L900 VLP0155-T
C901 10V22
C903 0.1
C900 PAT/1005
R900 1000/J2
R901 22/J2
R934 PAT/J2
C902 0.1
R903 1000/J2
R902 PAT/J2
R904 1000/J2
R910 EXB28V103JX
C907 0.1
R908 100K/J2
R909 PAT/J2
R911 1000/J2
R912 PAT/J2
R913 10K/J2
R914 10K/J2
R918 10K/J2
C913 0.1
C912 0.1
L902 47U
C911 10V22
L909 25U
R936 0/J2
R935 0/J2
AGNDPHY
DGND
C919 1U
R922 56/J2
R929 56/J2
R924 56/J2
R932 56/J2
C916 220P
R933 5100/J2
L905 J0MAB0000155
L906 J0MAB0000155
1:D10 VTR_TPA-
1:D10 VTR_TPA+
1:A10 VTR_TPB-
1:A10 VTR_TPB+
C918 1U
R920 56/J2
R926 56/J2
R923 56/J2
R930 56/J2
C915 220P
R931 5100/J2
L907 J0MAB0000155
L908 J0MAB0000155
9:12 OHCI_TPA-
9:12 OHCI_TPA+
9:11 OHCI_TPB-
9:11 OHCI_TPB+
C917 1U
R919 56/J2
R925 56/J2
R921 56/J2
R927 56/J2
C914 220P
R928 5100/J2
L303 J0MAB0000155
L904 J0MAB0000155
1:P2 TPB-
1:P2 TPB+
1:P2 TPA-
1:P2 TPA+
A
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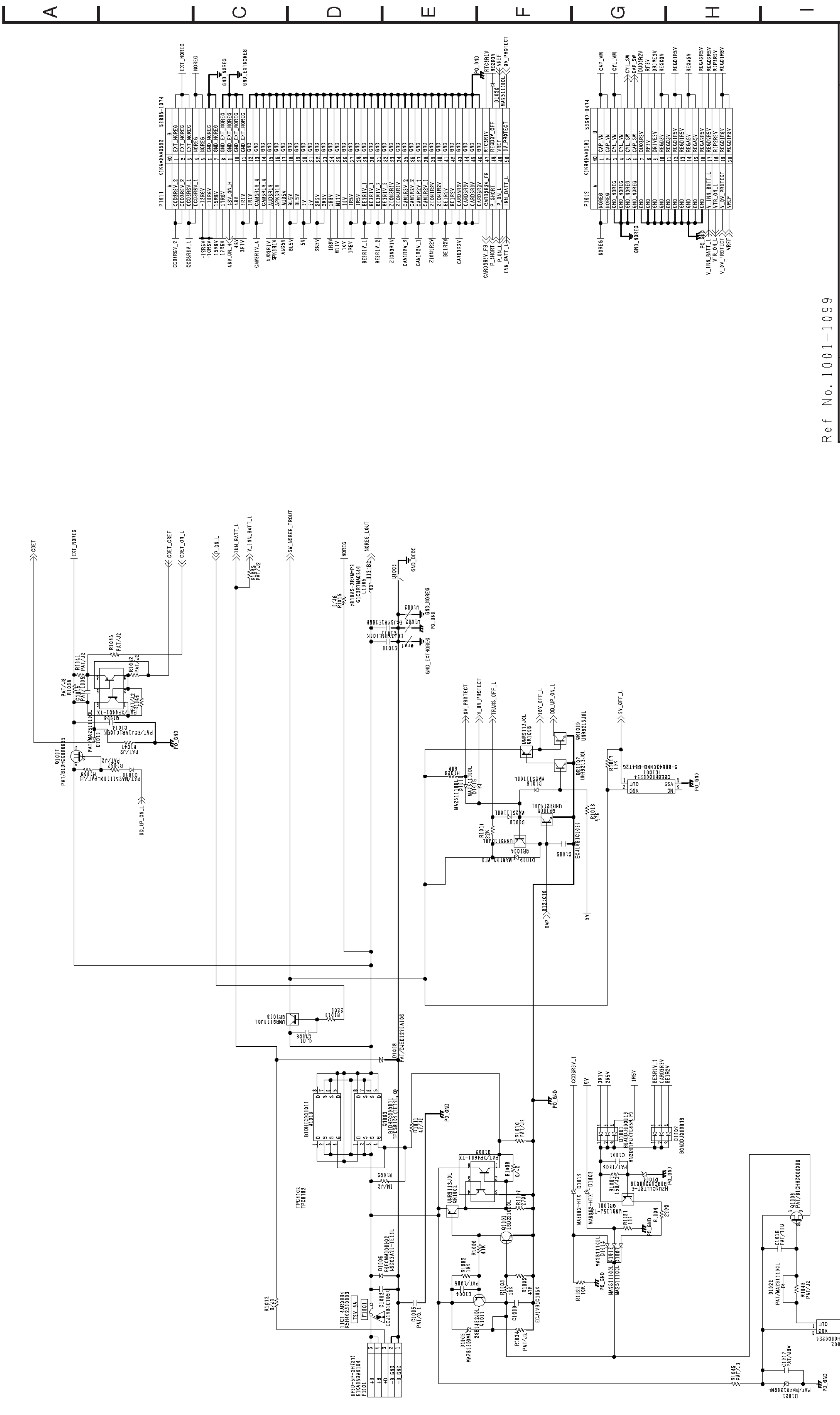
Ref No. 900~999

COMPONENT NAME	CODEC (1394 PHY)	10/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G89A/B	KR3A0367(10/10)	
	SCM025	


A
C
D
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H
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J
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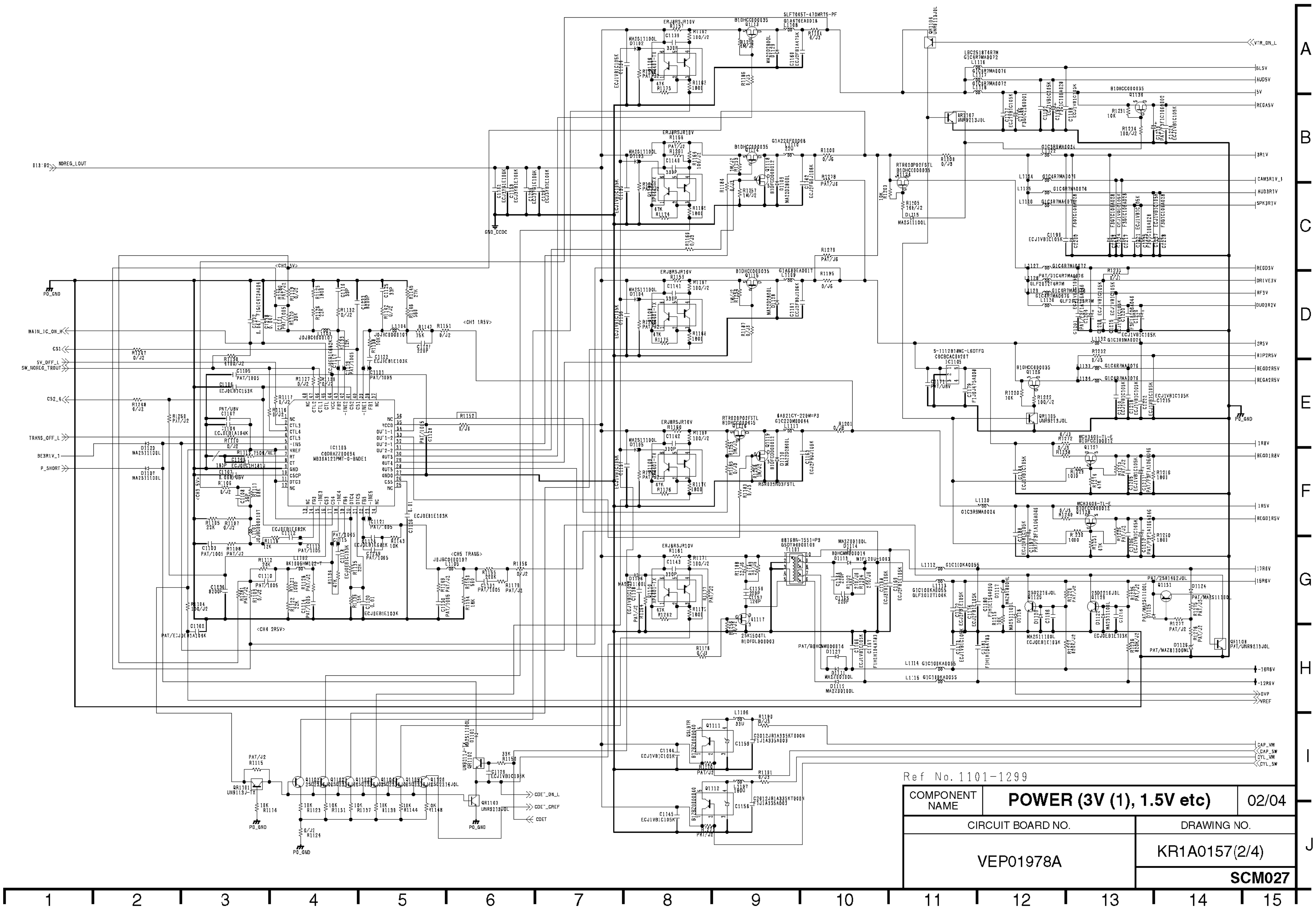
P1011
P1012
CDET
EXT_NDREG
PD_GND
TPC8102

Ref No. 1001-1099

Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

COMPONENT NAME	POWER (IN/OUT etc)	01/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP01978A	KR1A0157(1/4)	
		SCM026



VTR_ON_L
BL5V
AUD5V
5V
REGA5V
3R1V
CAM3R1V_1
AUD3R1V
SPK3R1V
REGD5V
DRIVE5V
RF5V
DUD3R2V
2R5V
R1P2R5V
REGD2R5V
REGA2R5V
PD_GND
1R8V
REGD1R8V
1R5V
REGD1R5V
17R6V
15R6V
-16R6V
-12R6V
OVP
VREF
CAP_VM
CAP_SW
CYL_VM
CYL_SW
CDET_ON_L
CDET_CREF
CDET
MAIN_IC_ON_H
CS1
5V_OFF_L
SW_NDREG_TROUT
CS2_4
TRANS_OFF_L
BE3R1V_1
P_SHORT
B13:B2 NDREG_LOUT
GND_DCDC
IC1103
C0DBAZZ00084
MB39A121PMT-G-BNDE1
<CH1 1R5V>
<CH2 5V>
<CH3 5V>
<CH4 2R5V>
<CH5 TRANS>
A
B
C
D
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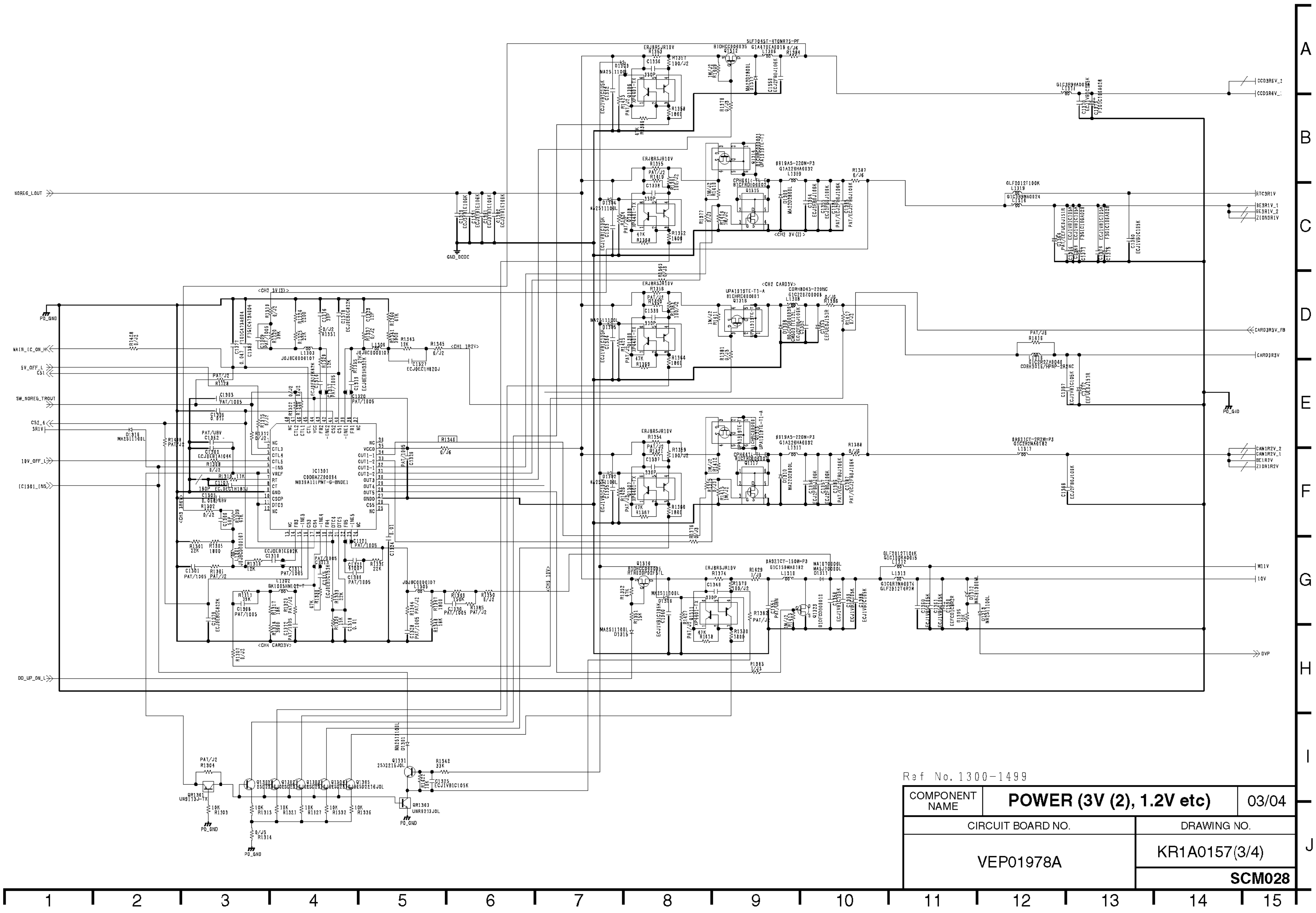
Ref No. 1101-1299

COMPONENT NAME	POWER (3V (1), 1.5V etc)	02/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP01978A	KR1A0157(2/4)	
	SCM027	


NOREG_LOUT
PD_GND
MAIN_IC_ON_H
5V_OFF_L
CS1
SW_NOREG_TROUT
CS2_4
3R1V
18V_OFF_L
IC1301_INS
DD_UP_ON_L
CCD3R6V_2
CCD3R6V_1
RTC3R1V
BE3R1V_1
BE3R1V_2
Z1DN3R1V
CARD3R3V_FB
CARD3R3V
PD_GID
GND_DCDC
CAM1R2V_2
CAM1R2V_1
BE1R2V
Z1DN1R2V
M11V
10V
OVP
<CH2 3V(1)>
<CH1 1R2V>
<CH2 3V(2)>
<CH2 CARD3V>
<CH3 3R6V>
<CH4 CARD3V>
<CH5 10V>
IC1301
C0DBAZZ00094
MB39A111PMT-G-BNDE1
A
B
C
D
E
F
G
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1
2
3
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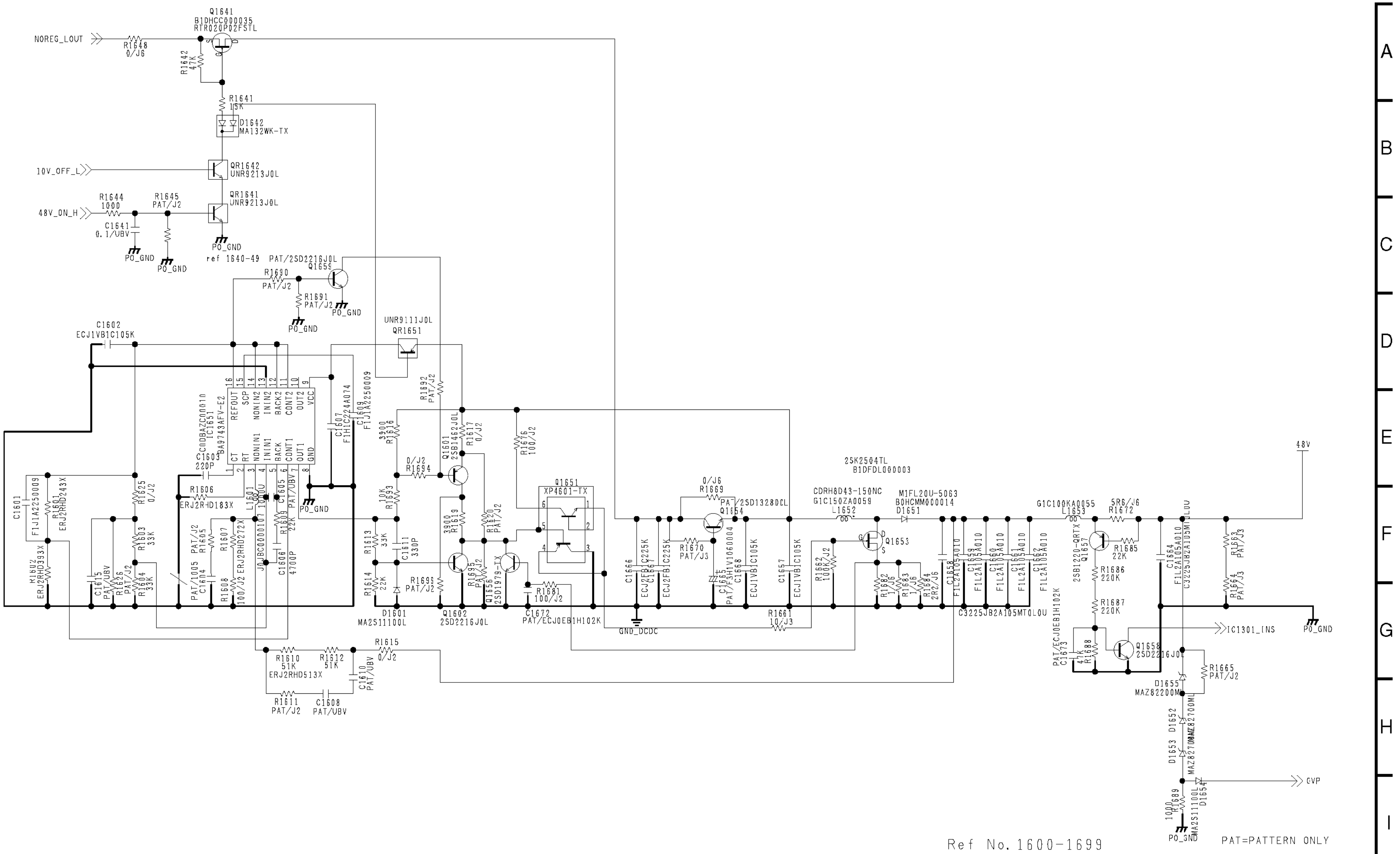
Ref No. 1300-1499

COMPONENT NAME	POWER (3V (2), 1.2V etc)		03/04
CIRCUIT BOARD NO.		DRAWING NO.	
VEP01978A		KR1A0157(3/4)	
		SCM028	


NOREG_LOUT
R1648 0/J6
Q1641 B1DHCC000035 RTR020P02FSTL
R1642 47K
R1641 15K
D1642 MA132WK-TX
10V_OFF_L
QR1642 UNR9213J0L
48V_ON_H
R1644 1000
R1645 PAT/J2
QR1641 UNR9213J0L
C1641 0.1/UBV
PO_GND
ref 1640-49
PAT/2SD2216J0L Q1659
R1690 PAT/J2
R1691 PAT/J2
UNR9111J0L QR1651
C1602 ECJ1VB1C105K
IC1651 C0DBAZC00010 BA9743AFV-E2
CT RT NONIN1 ININ1 BACK CONT1 OUT1 GND
REFOUT SCP NONIN2 ININ2 BACK2 CONT2 OUT2 VCC
C1603 220P
R1606 ERJ2RHD183X
L1601 J0JBC0000017 100U
C1605 PAT/UBV
R1609 22K
C1606 4700P
C1607 F1H1C224A074
C1609 F1J1A2250009
C1601 F1J1A2250009
R1601 ERJ2RHD243X
R1602 ERJ2RHD393X
C1615 PAT/UBV
R1626 PAT/J2
R1625 0/J2
R1603 33K
R1604 33K
PAT/1005 C1604
R1605 PAT/J2
R1607
R1608 100/J2 ERJ2RHD272X
R1610 51K ERJ2RHD513X
R1612 51K
R1611 PAT/J2
C1608 PAT/UBV
C1610 PAT/UBV
R1615 0/J2
R1616 3900
R1694 0/J2
R1693 10K
R1613 33K
R1614 22K
C1611 330P
D1601 MA2S111000L
R1692 PAT/J2
Q1601 2SB1462J0L
R1617 0/J2
R1619 3900
R1620 PAT/J2
R1695 PAT/J2
R1699 PAT/J2
Q1602 2SD2216J0L
Q1656 2SD1979-TX
R1676 100/J2
Q1651 XP4601-TX
R1681 100/J2
C1672 PAT/ECJ0EB1H102K
C1666 ECJ2FB1C225K
C1667 ECJ2FB1C225K
GND_DCDC
R1669 0/J6
Q1654 2SD1328DCL
R1670 PAT/J3
C1665 PAT/F3H1V1060004
C1668 ECJ1VB1C105K
C1657 ECJ1VB1C105K
R1661 10/J3
R1662 100K/J2
2SK2504TL B1DFDL000003
CDRH8D43-150NC G1C150ZA0059 L1652
Q1653
M1FL20U-5063 B0HCMM000014 D1651
R1682 1/J6
R1683 1/J6
R1684 2R2/J6
C1658 F1L2A105A010
C1659 F1L2A105A010
C1660 F1L2A105A010
C1661 F1L2A105A010
C1662 F1L2A105A010
C3225JB2A105MT0L0U
G1C100KA0055 L1653
5R6/J6 R1672
2SB1220-QRTX Q1657
R1685 22K
R1686 220K
R1687 220K
C1664 F1L2A105A010 C3225JB2A105MT0L0U
R1663 PAT/J3
R1664 PAT/J3
48V
PO_GND
IC1301_INS
PAT/ECJ0EB1H102K C1673
R1688 47K
Q1658 2SD2216J0L
R1665 PAT/J2
D1655 MAZ8220OML
D1652 MAZ82700ML
D1653 MAZ82700ML
OVP
R1689 1000
MA2S111000L D1654
Ref No.1600-1699
PAT=PATTERN ONLY
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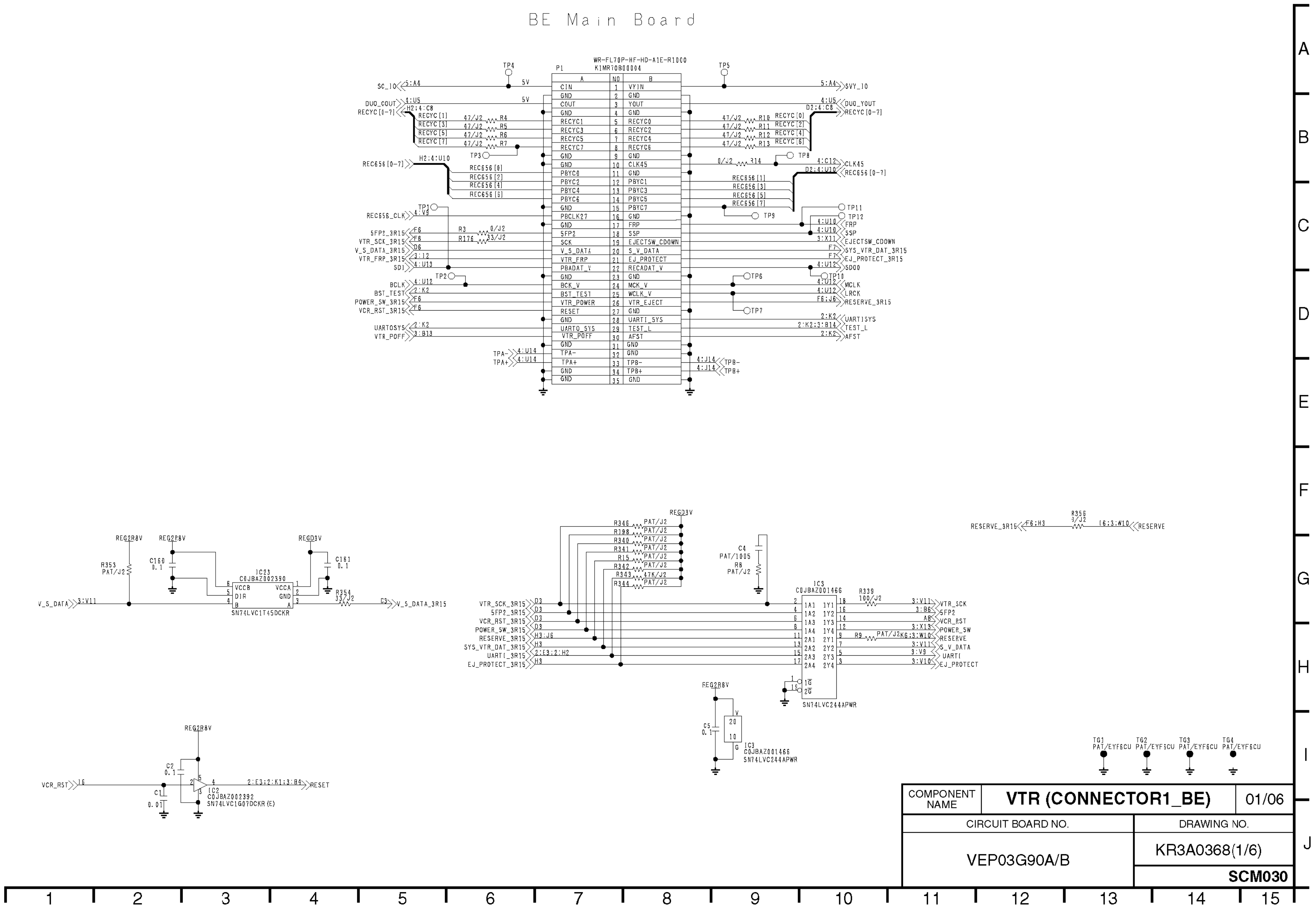
COMPONENT NAME	POWER (48V)	04/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP01978A	KR1A0157(4/4)	
	SCM029	


BE Main Board
WR-FL70P-HF-HD-A1E-R1000
K1MR70B00004
P1
A
NO
B
CIN 1 VYIN
GND 2 GND
COUT 3 YOUT
GND 4 GND
RECYC1 5 RECYC0
RECYC3 6 RECYC2
RECYC5 7 RECYC4
RECYC7 8 RECYC6
GND 9 GND
GND 10 CLK45
PBYC0 11 GND
PBYC2 12 PBYC1
PBYC4 13 PBYC3
PBYC6 14 PBYC5
GND 15 PBYC7
PBCLK27 16 GND
GND 17 FRP
5FP2 18 SSP
SCK 19 EJECTSW_CDOWN
V_S_DATA 20 S_V_DATA
VTR_FRP 21 EJ_PROTECT
PBADAT_V 22 RECADAT_V
GND 23 GND
BCK_V 24 MCK_V
BST_TEST 25 WCLK_V
VTR_POWER 26 VTR_EJECT
RESET 27 GND
GND 28 UARTI_SYS
UARTO_SYS 29 TEST_L
VTR_POFF 30 AFST
GND 31 GND
TPA- 32 GND
TPA+ 33 TPB-
GND 34 TPB+
GND 35 GND
TP4
TP5
5V
5V
SC_IO 5:A4
SVY_IO 5:A4
DUO_COUT 4:U5
RECYC[0-7] H2;4:C8
DUO_YOUT 4:U5
RECYC[0-7] D2;4:C8
RECYC[1] 47/J2 R4
RECYC[3] 47/J2 R5
RECYC[5] 47/J2 R6
RECYC[7] 47/J2 R7
47/J2 R10 RECYC[0]
47/J2 R11 RECYC[2]
47/J2 R12 RECYC[4]
47/J2 R13 RECYC[6]
TP3
TP8
0/J2 R14
CLK45 4:C12
REC656[0-7] H2;4:U10
REC656[0]
REC656[2]
REC656[4]
REC656[6]
REC656[0-7] D2;4:U10
REC656[1]
REC656[3]
REC656[5]
REC656[7]
TP1
TP9
TP11
TP12
REC656_CLK 4:V9
5FP2_3R15 F6
VTR_SCK_3R15 F6
V_S_DATA_3R15 D6
VTR_FRP_3R15 3:I2
SDI 4:U13
R3 0/J2
R176 33/J2
FRP 4:U10
SSP 4:U10
EJECTSW_CDOWN 3:X11
SYS_VTR_DAT_3R15 F7
EJ_PROTECT_3R15 F7
SDO0 4:U12
TP2
TP6
TP10
TP7
BCLK 4:U12
BST_TEST 2:K2
POWER_SW_3R15 F6
VCR_RST_3R15 F6
MCLK 4:U12
LRCK 4:U12
RESERVE_3R15 F6;J6
UARTOSYS 2:K2
VTR_POFF 3:B13
UARTISYS 2:K2
TEST_L 2:K2;3:B14
AFST 2:K2
TPA- 4:U14
TPA+ 4:U14
TPB- 4:J14
TPB+ 4:J14
REG2R8V
R353 PAT/J2
REG2R8V
C160 0.1
REGD3V
C161 0.1
IC23
C0JBAZ002390
VCCB
DIR
B
VCCA
GND
A
SN74LVC1T45DCKR
6
5
4
1
2
3
V_S_DATA 3:V11
R354 33/J2
V_S_DATA_3R15 C3
REG2R8V
C2 0.1
C1 0.01
VCR_RST I6
IC2
C0JBAZ002392
SN74LVC1G07DCKR(E)
2
3
4
5
RESET 2:E3;2:K1;3:B4
REGD3V
R346 PAT/J2
R198 PAT/J2
R340 PAT/J2
R341 PAT/J2
R15 PAT/J2
R342 PAT/J2
R343 47K/J2
R344 PAT/J2
C4 PAT/1005
R8 PAT/J2
VTR_SCK_3R15 D3
5FP2_3R15 D3
VCR_RST_3R15 D3
POWER_SW_3R15 D3
RESERVE_3R15 H3;J6
SYS_VTR_DAT_3R15 H3
UARTI_3R15 2:E3;2:H2
EJ_PROTECT_3R15 H3
IC3
C0JBAZ001466
2 1A1 1Y1 18
4 1A2 1Y2 16
6 1A3 1Y3 14
8 1A4 1Y4 12
11 2A1 2Y1 9
13 2A2 2Y2 7
15 2A3 2Y3 5
17 2A4 2Y4 3
1 1G
19 2G
SN74LVC244APWR
R339 100/J2
R9 PAT/J2
VTR_SCK 3:V11
5FP2 3:B6
VCR_RST A8
POWER_SW 3:X13
RESERVE K6;3:W10
S_V_DATA 3:V11
UARTI 3:V9
EJ_PROTECT 3:V10
REG2R8V
C5 0.1
V
20
10
G
IC3
C0JBAZ001466
SN74LVC244APWR
R356 0/J2
RESERVE_3R15 F6;H3
RESERVE I6;3:W10
TG1 PAT/EYF6CU
TG2 PAT/EYF6CU
TG3 PAT/EYF6CU
TG4 PAT/EYF6CU
A
B
C
D
E
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G
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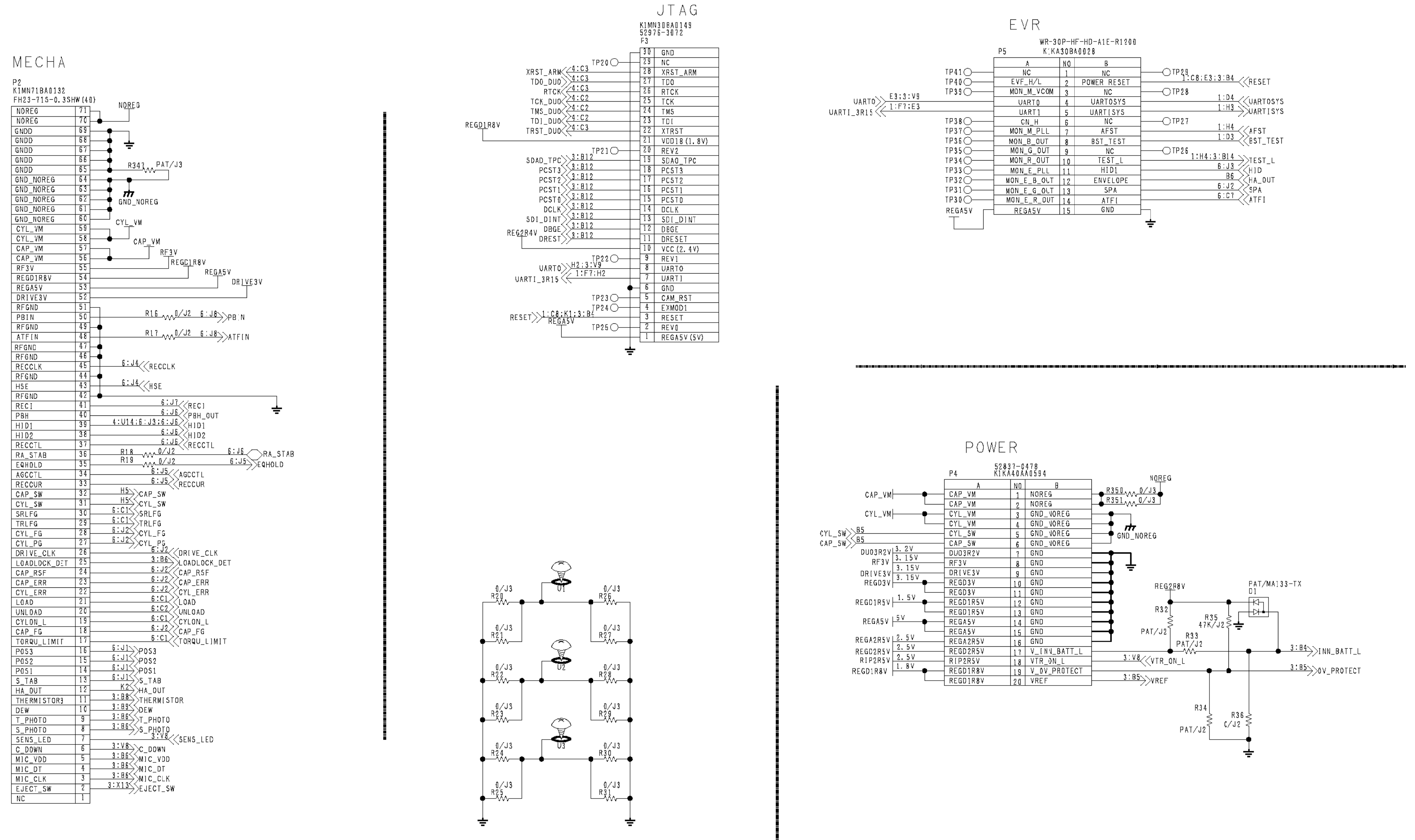
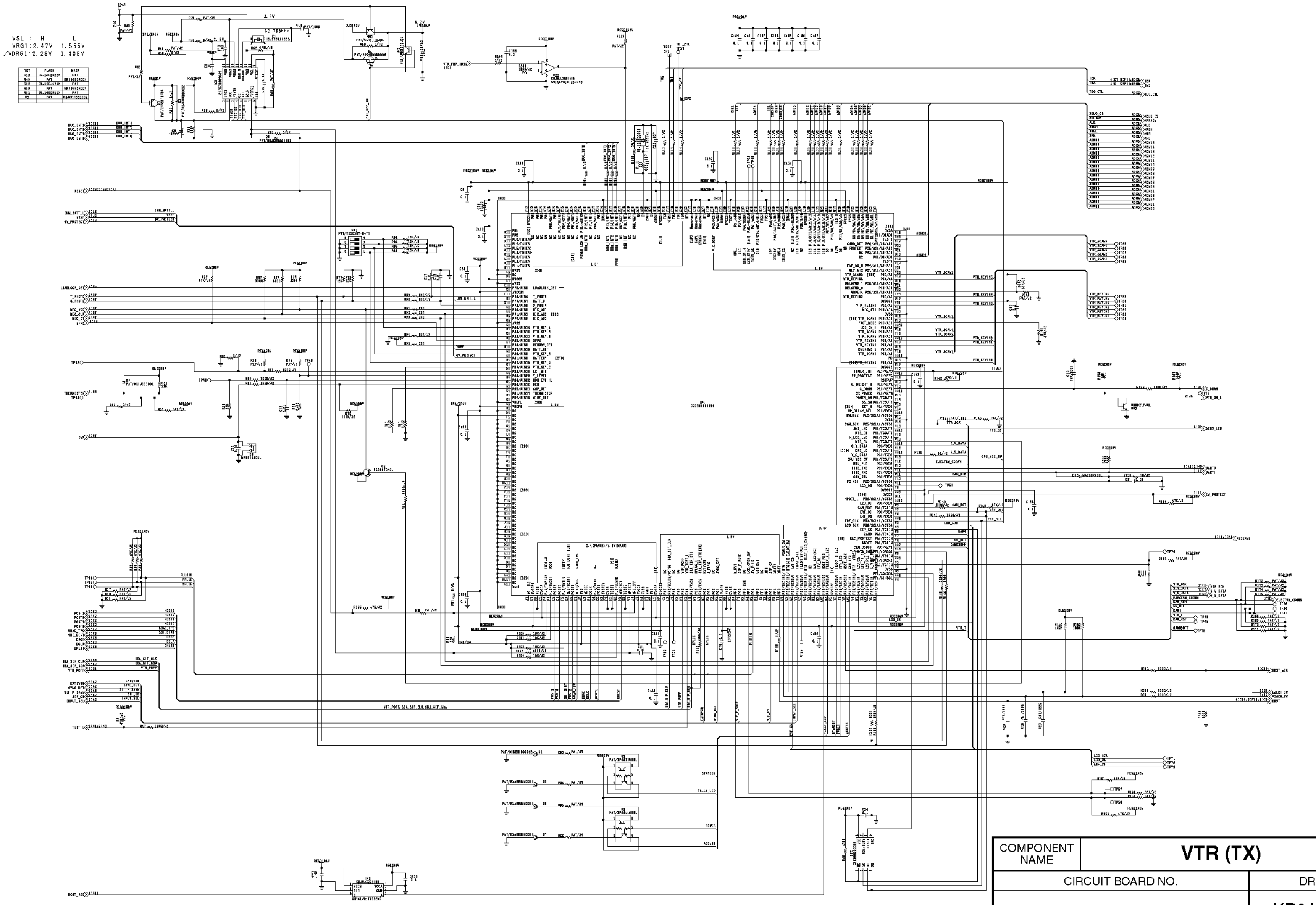
COMPONENT NAME	**VTR (CONNECTOR1_BE)**	01/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G90A/B	KR3A0368(1/6)	
	SCM030	

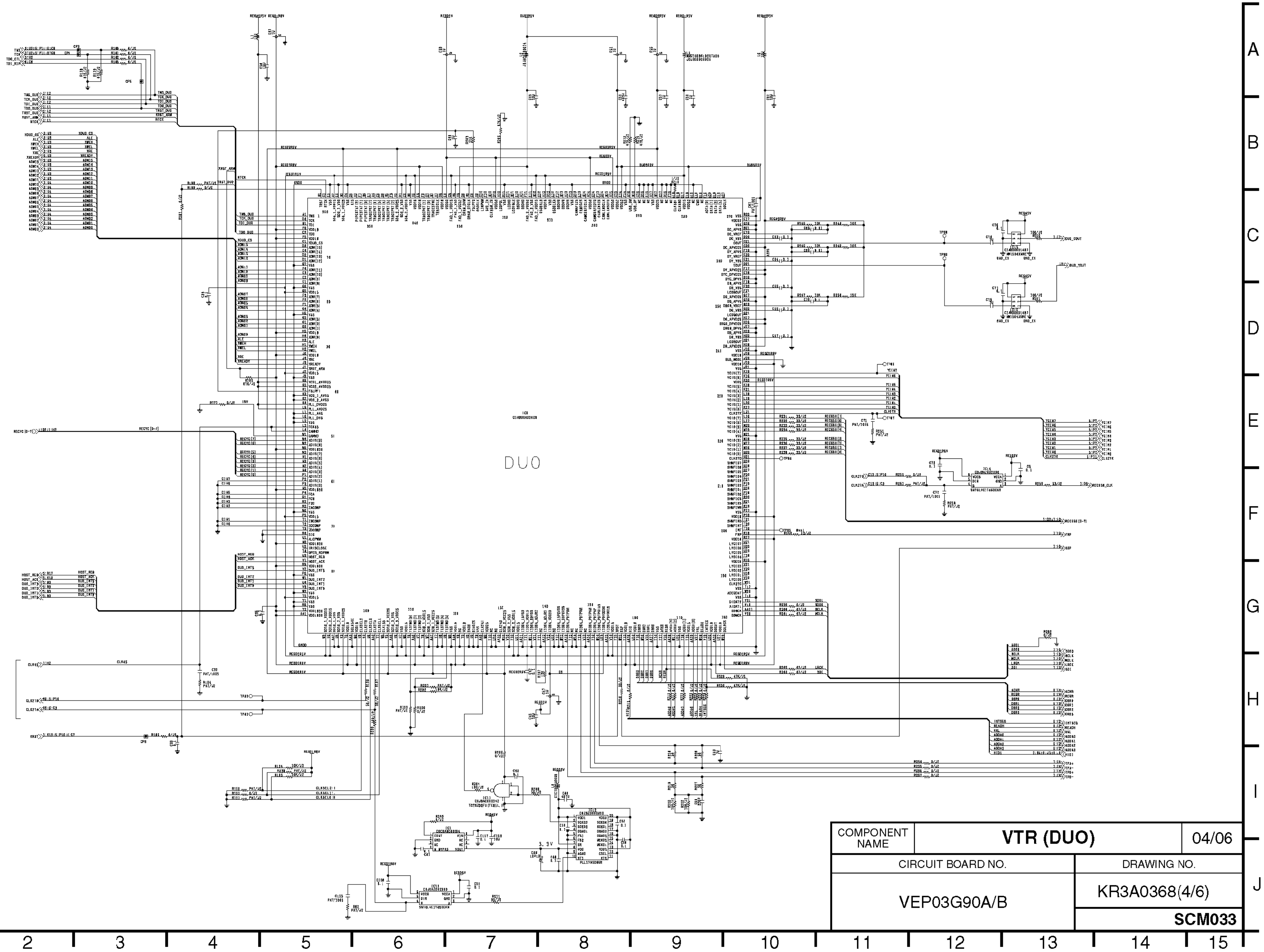

MECHA
P2
K1MN71BA0132
FH23-71S-0.3SHW(40)
JTAG
K1MN30BA0149
52976-3072
F3
EVR
P5
WR-30P-HF-HD-A1E-R1200
K:KA30BA0028
POWER
P4
52837-0478
K1KA40AA0594
U1
U2
U3
D1
PAT/MA133-TX

COMPONENT NAME	VTR (CONNECTOR2_MECHA)	02/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G90A/B	KR3A0368(2/6)	
	SCM031	


VSL : H L
VRG1:2.47V 1.555V
/VDRG1:2.28V 1.408V

ICT	FLASH	MASK
R50	ERJ2GE0R00X	PAT
R49	PAT	ERJ2GE0R00X
R12	ERJ2GEJ474X	PAT
R51	PAT	ERJ2GE0R00X
R52	ERJ2GE0R00X	PAT
D3	PAT	DBJC00000002

COMPONENT NAME	VTR (TX)	03/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G90A/B	KR3A0368(3/6)	
	SCM032	


DUO
A
B
C
D
E
F
G
H
I
J
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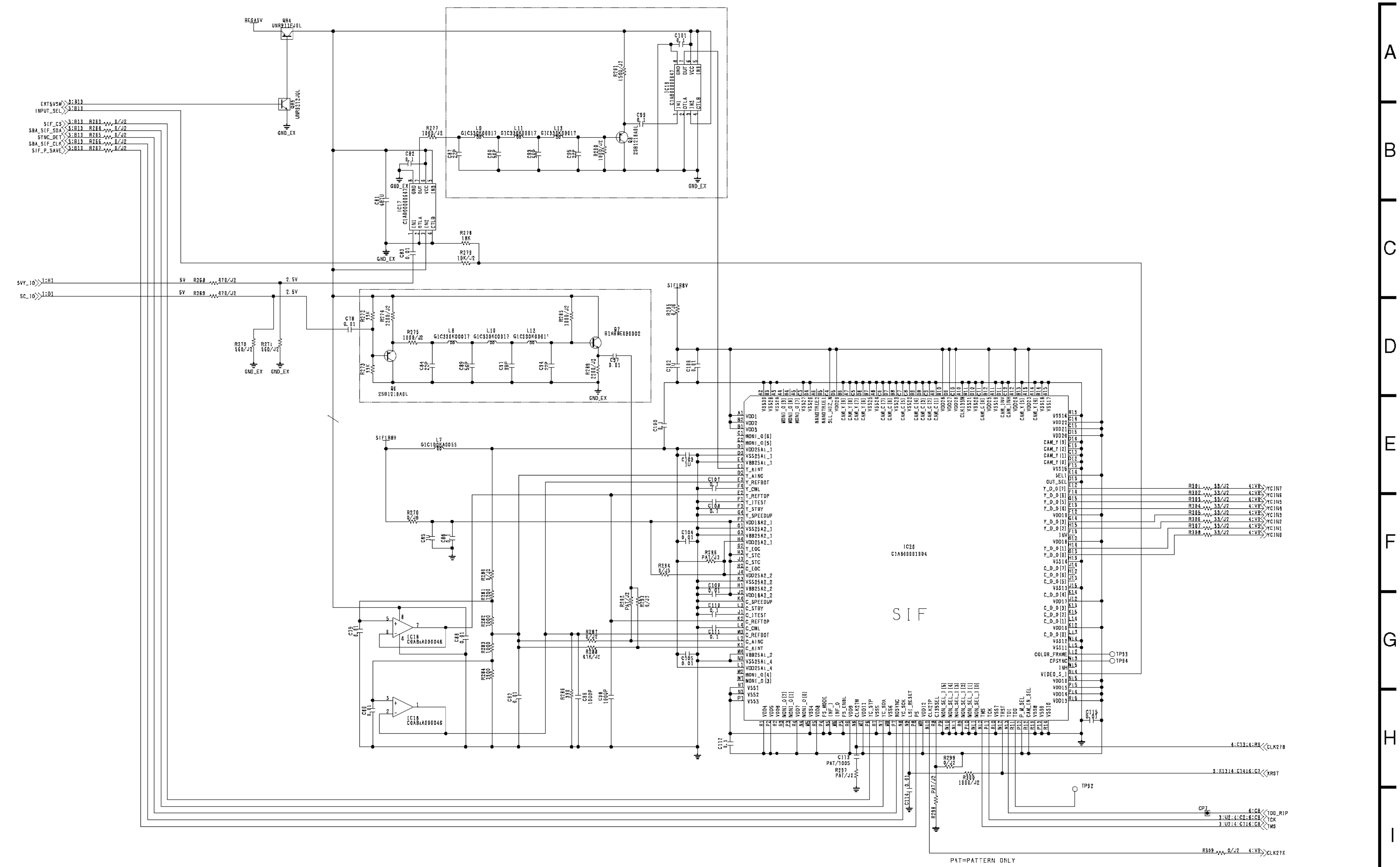
COMPONENT NAME	VTR (DUO)	04/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G90A/B	KR3A0368(4/6)	
	SCM033	



REGA5V
QR4 UNR911FJ0L
QR5 UNR9212J0L
GND_EX
EXT5VSW 3:B13
INPUT_SEL 3:B13
SIF_CS 3:B13 R263 0/J2
SBA_SIF_SDA 3:B13 R264 0/J2
SYNC_DET 3:B13 R265 0/J2
SBA_SIF_CLK 3:B13 R266 0/J2
SIF_P_SAVE 3:B13 R267 0/J2
5VY_IO 1:H1 5V R268 470/J2 2.5V
SC_IO 1:D1 5V R269 470/J2 2.5V
R270 560/J2
R271 560/J2
IC17 C1AB00000647
C82 0.1
C81 47U
C83 0.01
R277 1000/J2
R278 18K
R279 10K/J2
IC16 C1AB00000647
C101
R291 1500/J2
Q7 2SB1218A0L
Q6 2SB1218A0L
Q3 B1ABGE000002
L8 G1C330K00017
L11 G1C330K00017
L13 G1C330K00017
L9 G1C330K00017
L10 G1C330K00017
L12 G1C330K00017
L7 G1C10DKA0055
C78 0.01
R275 1000/J2
SIF1R8V
IC18 C0ABAA000046
IC15 C1AB00001904
SIF
R301 33/J2 4:V8 YCIN7
R302 33/J2 4:V8 YCIN6
R303 33/J2 4:V8 YCIN5
R304 33/J2 4:V8 YCIN4
R305 33/J2 4:V8 YCIN3
R306 33/J2 4:V9 YCIN2
R307 33/J2 4:V9 YCIN1
R308 33/J2 4:V9 YCIN0
TP93
TP94
TP92
C115 0.01
4:C13;4:R9 CLK27B
3:K13;4:C14;6:C7 XRST
CP7
6:C8 TDO_RIP
3:U2;4:C2;6:C8 TCK
3:U2;4:C1;6:C8 TMS
R309 0/J2 4:V9 CLK27X
PAT=PATTERN ONLY
REG01R8V
SIF1R8V
GND_EX
A
B
C
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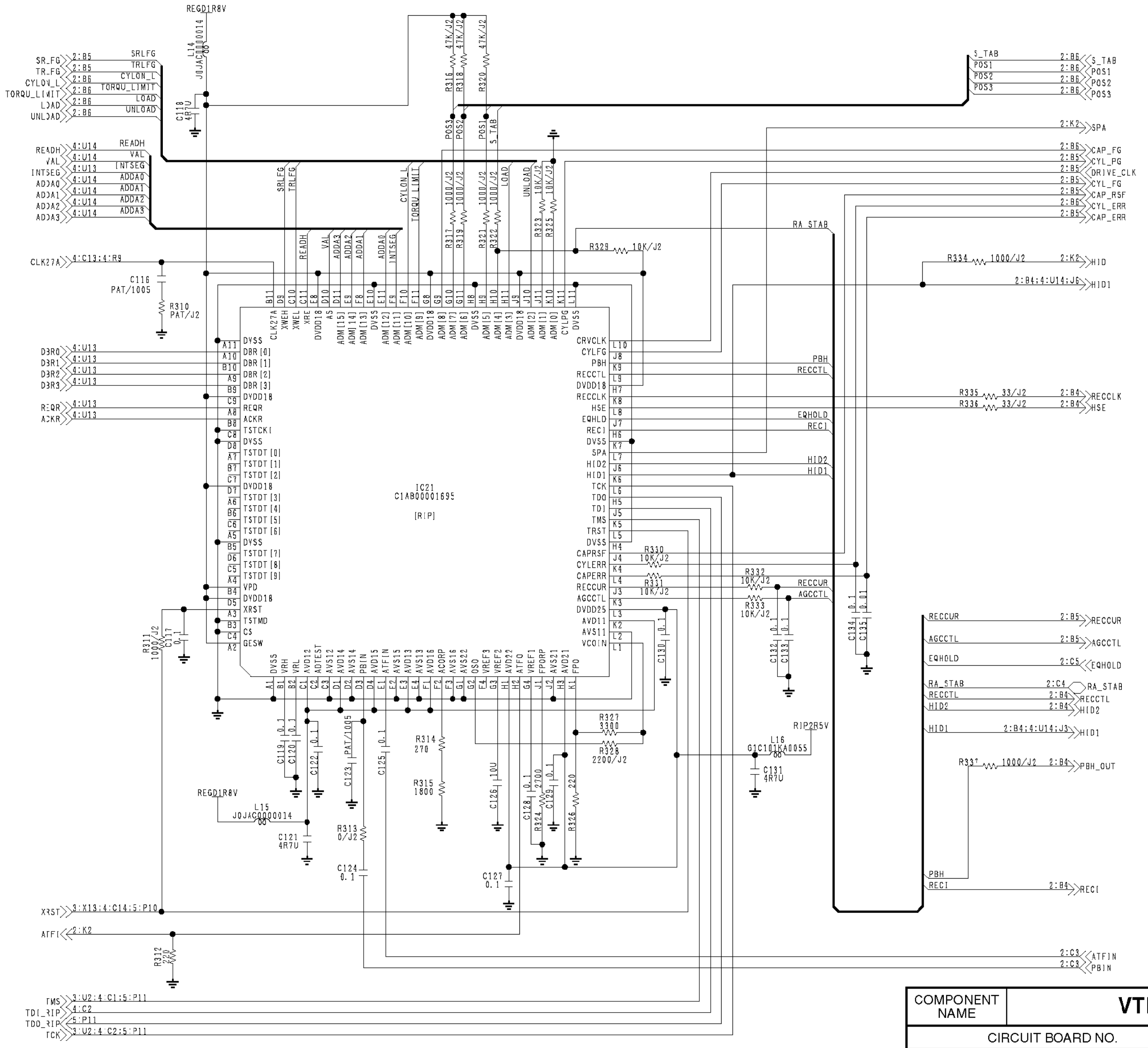
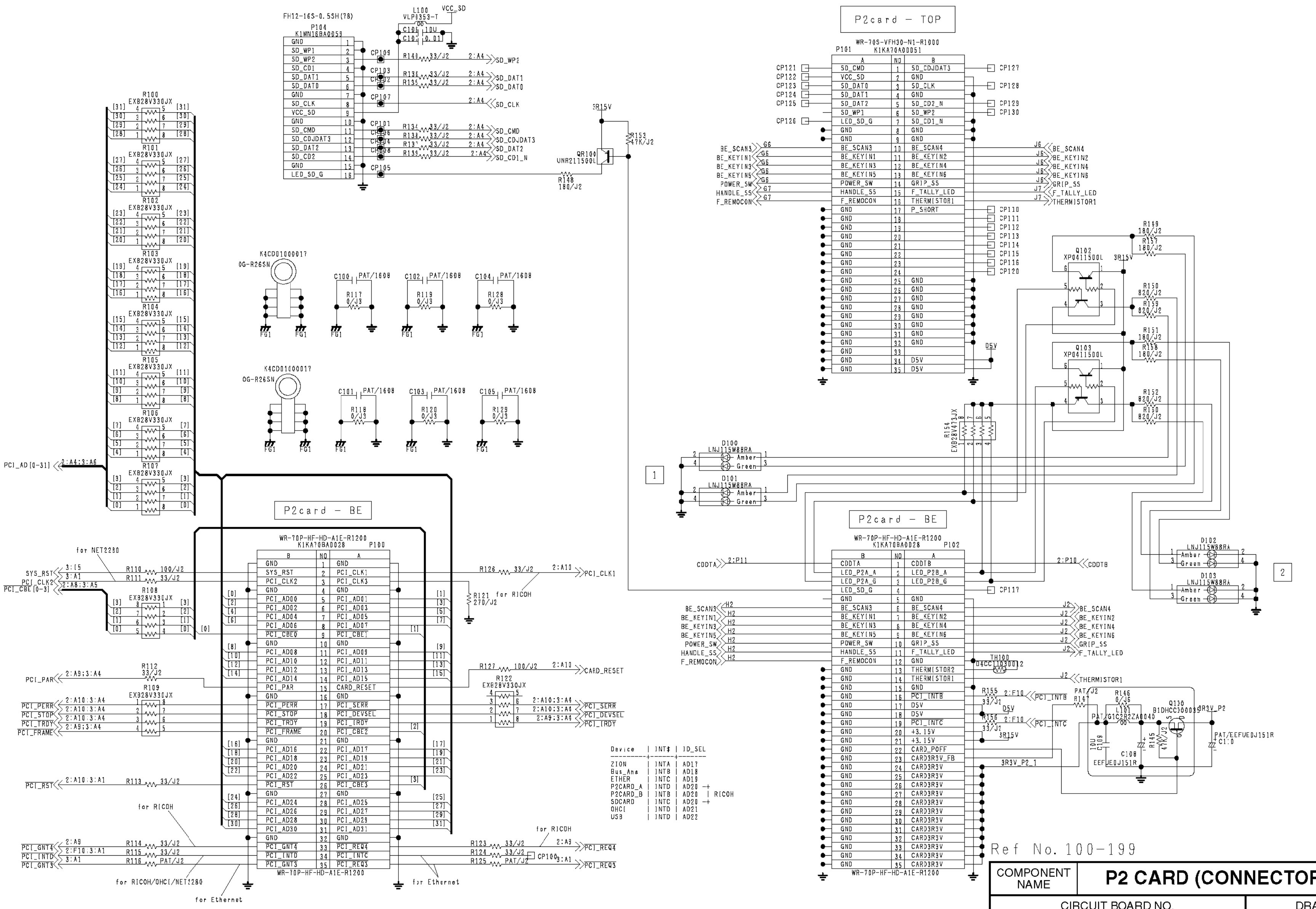
COMPONENT NAME	VTR (SIF)	05/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G90A/B	KR3A0368(5/6)	
	SCM034	

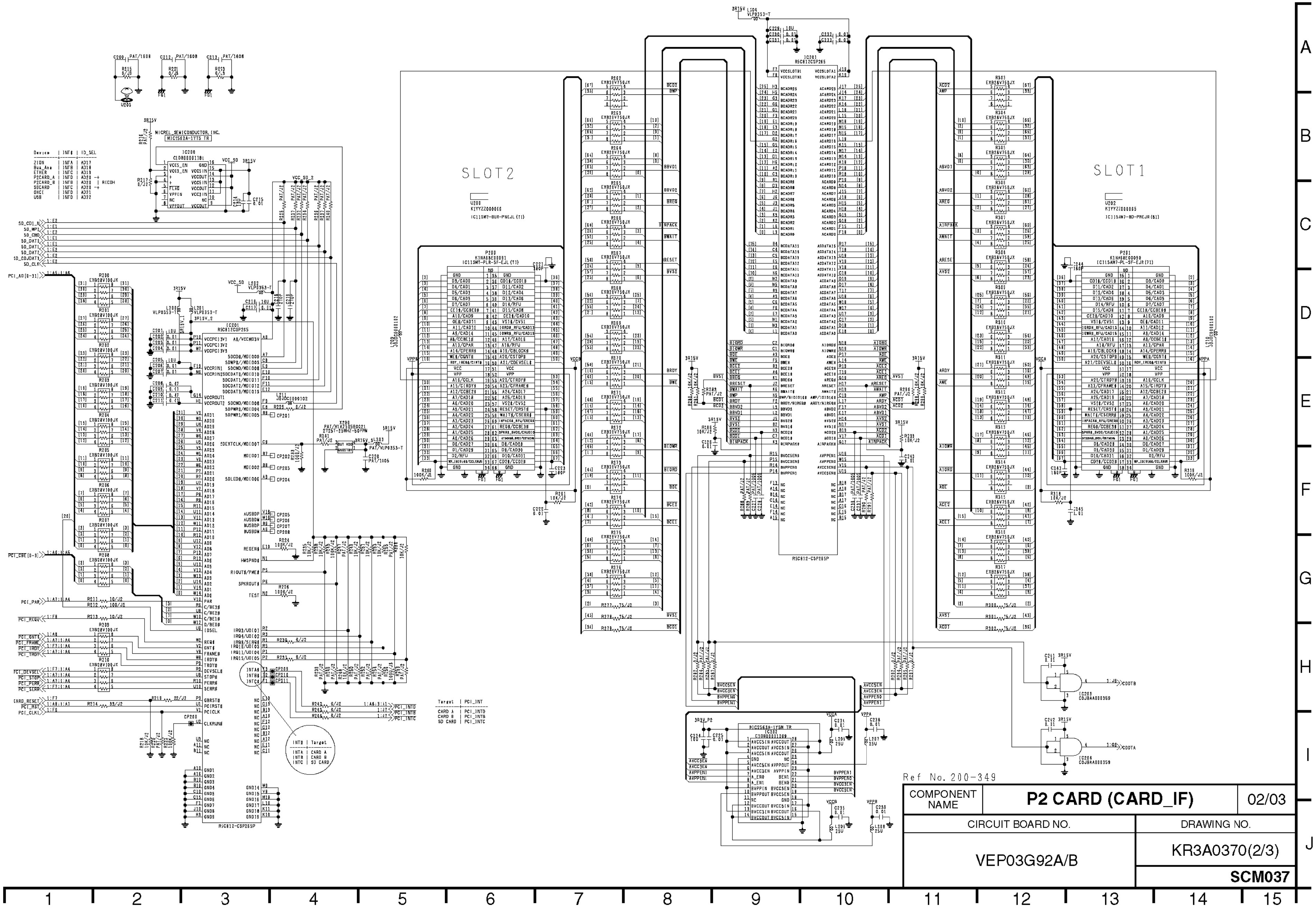

IC21
C1AB00001695
[RIP]
REGD1R8V
L14
J0JAC0000014
C118
4R7U
SR_FG
TR_FG
CYLON_L
TORQU_LIMIT
LOAD
UNLOAD
SRLFG
TRLFG
READH
VAL
INTSEG
ADDA0
ADDA1
ADDA2
ADDA3
CLK27A
4:C13;4:R9
C116
PAT/1005
R310
PAT/J2
D3R0
D3R1
D3R2
D3R3
REQR
ACKR
4:U13
4:U14
2:B5
2:B6
R316 47K/J2
R318 47K/J2
R320 47K/J2
POS3
POS2
POS1
S_TAB
R317 1000/J2
R319 1000/J2
R321 1000/J2
R322 1000/J2
R323 10K/J2
R325 10K/J2
R329 10K/J2
RA_STAB
SPA
CAP_FG
CYL_PG
DRIVE_CLK
CYL_FG
CAP_RSF
CYL_ERR
CAP_ERR
R334 1000/J2
HID
HID1
HID2
2:B4;4:U14;J6
PBH
RECCTL
R335 33/J2
R336 33/J2
RECCLK
HSE
EQHOLD
RECI
R330 10K/J2
R331 10K/J2
R332 10K/J2
R333 10K/J2
RECCUR
AGCCTL
C134 0.1
C135 0.01
C130 0.1
C132 0.1
C133 0.1
R327 3300
R328 2200/J2
RIP2R5V
L16
G1C101KA0055
C131
4R7U
R337 1000/J2
PBH_OUT
R311 1000/J2
C117 0.1
C119 0.1
C120 0.1
C122 0.1
C123 PAT/1005
C125 0.1
R314 270
R315 1800
REGD1R8V
L15
J0JAC0000014
C121
4R7U
R313
0/J2
C124
0.1
C126 10U
C128 0.1
R324 2700
C129 0.1
R326 220
C127
0.1
XRST
3:X13;4:C14;5:P10
ATFI
2:K2
R312
220
ATFIN
PBIN
2:C3
TMS
TDI_RIP
TDO_RIP
TCK
3:U2;4:C1;5:P11
4:C2
5:P11
3:U2;4:C2;5:P11

COMPONENT NAME	VTR (RIP)	06/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G90A/B	KR3A0368(6/6)	
	SCM035	


P2card - TOP
P101
WR-70S-VFH30-N1-R1000
K1KA70A00051
P2card - BE
P100
WR-70P-HF-HD-A1E-R1200
K1KA70BA0028
P2card - BE
P102
WR-70P-HF-HD-A1E-R1200
K1KA70BA0028
P104
FH12-16S-0.5SH(78)
K1MN16BA0059
L100
VLP0353-T
VCC_SD
QR100
UNR211500L
R148
180/J2
R153
47K/J2
3R15V
Q102
XP0411500L
Q103
XP0411500L
R154
EXB28V473JX
D100
LNJ115W8BRA
D101
LNJ115W8BRA
D102
LNJ115W8BRA
D103
LNJ115W8BRA
Amber
Green
K4CD01000017
OG-R26SN
FG1
R100
EXB28V330JX
R108
EXB28V330JX
R109
EXB28V330JX
R122
EXB28V330JX
PCI_AD[0-31]
PCI_CBE[0-3]
SYS_RST
PCI_CLK2
PCI_CLK1
PCI_PAR
PCI_PERR
PCI_STOP
PCI_TRDY
PCI_FRAME
PCI_RST
PCI_GNT4
PCI_INTD
PCI_GNT3
PCI_REQ4
PCI_REQ3
PCI_SERR
PCI_DEVSEL
PCI_IRDY
CARD_RESET
for NET2280
for RICOH
for Ethernet
for RICOH/OHCI/NET2280
CDDTA
CDDTB
BE_SCAN3
BE_KEYIN1
BE_KEYIN3
BE_KEYIN5
POWER_SW
HANDLE_SS
F_REMOCON
BE_SCAN4
BE_KEYIN2
BE_KEYIN4
BE_KEYIN6
GRIP_SS
F_TALLY_LED
THERMISTOR1
TH100
D4CC11030012
Q130
B1DHCC000035
L101
J0JGC0000004
3R3V_P2
3R3V_P2_1
PCI_INTB
PCI_INTC
D5V
1
2
Ref No. 100-199

Device	INT#	ID_SEL	
ZION	INTA	AD17	
Bus_Ana	INTB	AD18	
ETHER	INTC	AD19	
P2CARD_A	INTD	AD20	RICOH
P2CARD_B	INTB	AD20	RICOH
SDCARD	INTC	AD20	RICOH
OHCI	INTD	AD21	
USB	INTD	AD22	

COMPONENT NAME	P2 CARD (CONNECTOR)	01/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G92A/B	KR3A0370(1/3)	
	SCM036	


SLOT1
SLOT2
A
B
C
D
E
F
G
H
I
J
1
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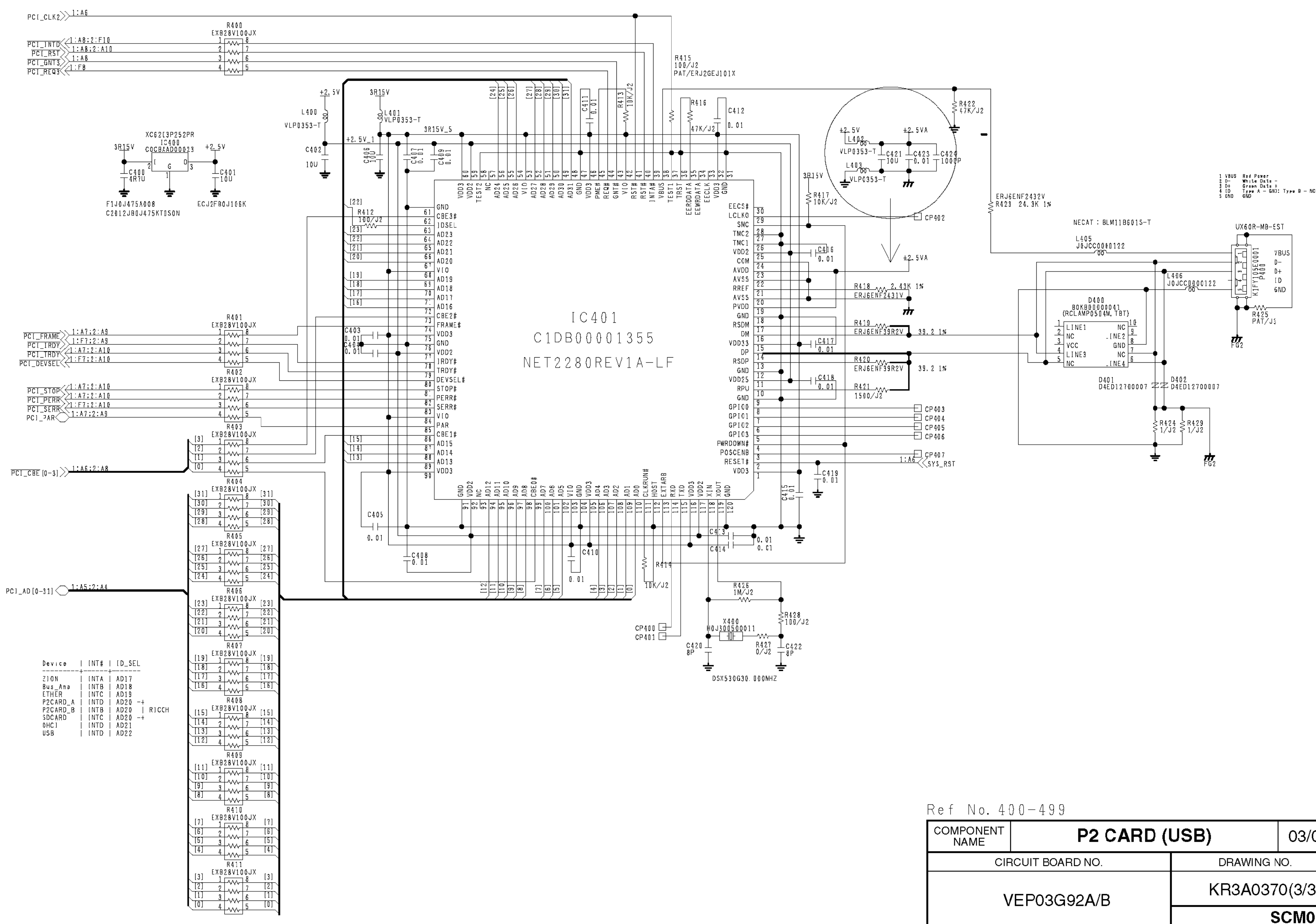
Ref No. 200-349

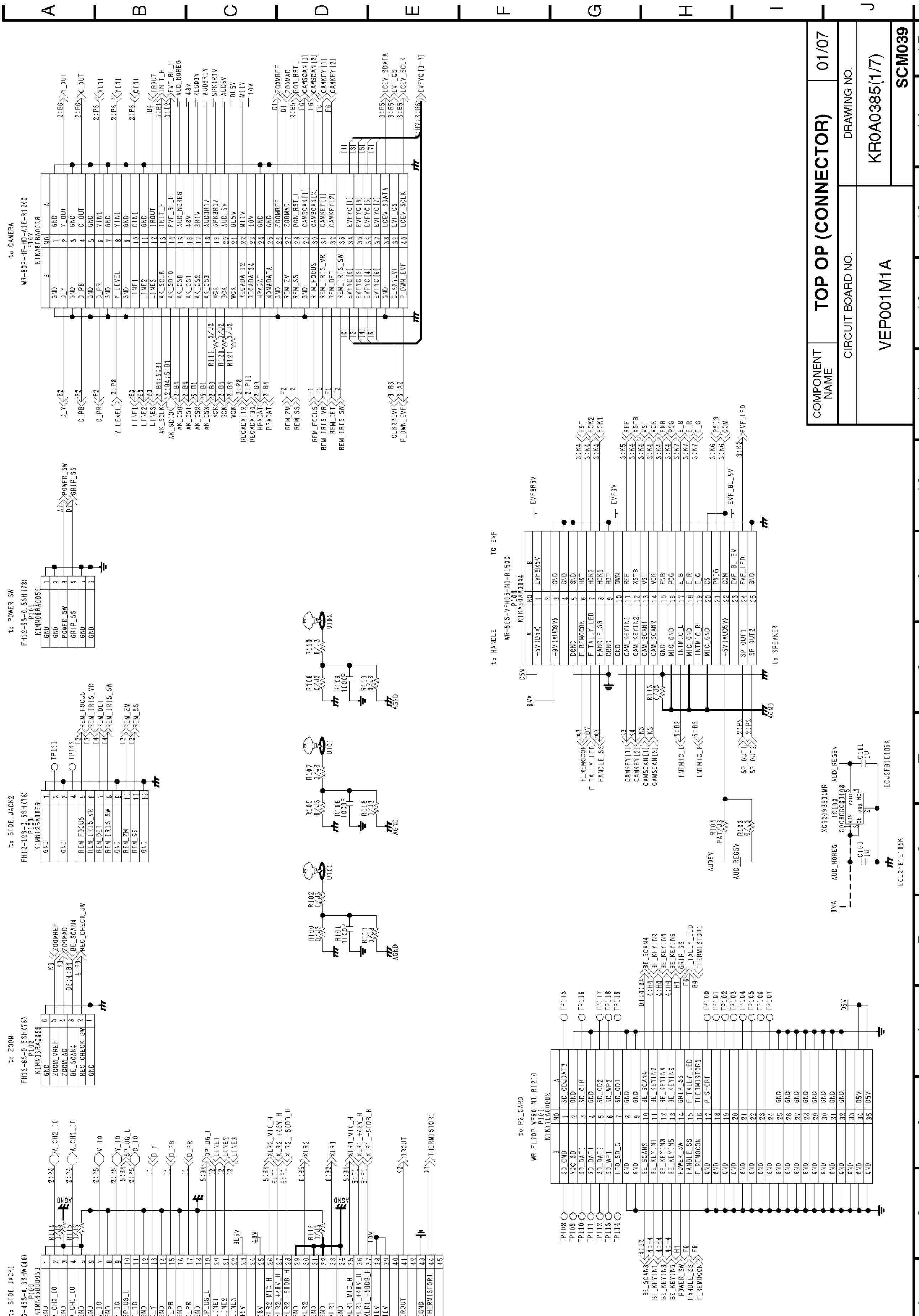
COMPONENT NAME	P2 CARD (CARD_IF)	02/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G92A/B	KR3A0370(2/3)	
	SCM037	


IC401
C1DB00001355
NET2280REV1A-LF
IC400
XC6213P252PR
C0CBAAD00023
D400
B0XB00000041
(RCLAMP0504M.TBT)
D401
D4ED12700007
D402
D4ED12700007
X400
H0J300500011
DSX530G30.000NHZ
P400
K1FY105E0001
UX60R-MB-EST
NECAT : BLM11B601S-T
L405
J0JCC0000122
L406
J0JCC0000122
R400 EXB28V100JX
R401 EXB28V100JX
R402 EXB28V100JX
R403 EXB28V100JX
R404 EXB28V100JX
R405 EXB28V100JX
R406 EXB28V100JX
R407 EXB28V100JX
R408 EXB28V100JX
R409 EXB28V100JX
R410 EXB28V100JX
R411 EXB28V100JX
PCI_CLK2
PCI_INTD
PCI_RST
PCI_GNT3
PCI_REQ3
PCI_FRAME
PCI_IRDY
PCI_TRDY
PCI_DEVSEL
PCI_STOP
PCI_PERR
PCI_SERR
PCI_PAR
PCI_CBE[0-3]
PCI_AD[0-31]
SYS_RST
+2.5V
+2.5VA
3R15V
FG2

Device	INT#	ID_SEL	
ZION	INTA	AD17	
Bus_Ana	INTB	AD18	
ETHER	INTC	AD19	
P2CARD_A	INTD	AD20	
P2CARD_B	INTB	AD20	RICOH
SDCARD	INTC	AD20	
OHCI	INTD	AD21	
USB	INTD	AD22	

Ref No. 400-499

COMPONENT NAME	P2 CARD (USB)	03/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G92A/B	KR3A0370(3/3)	
	SCM038	


A
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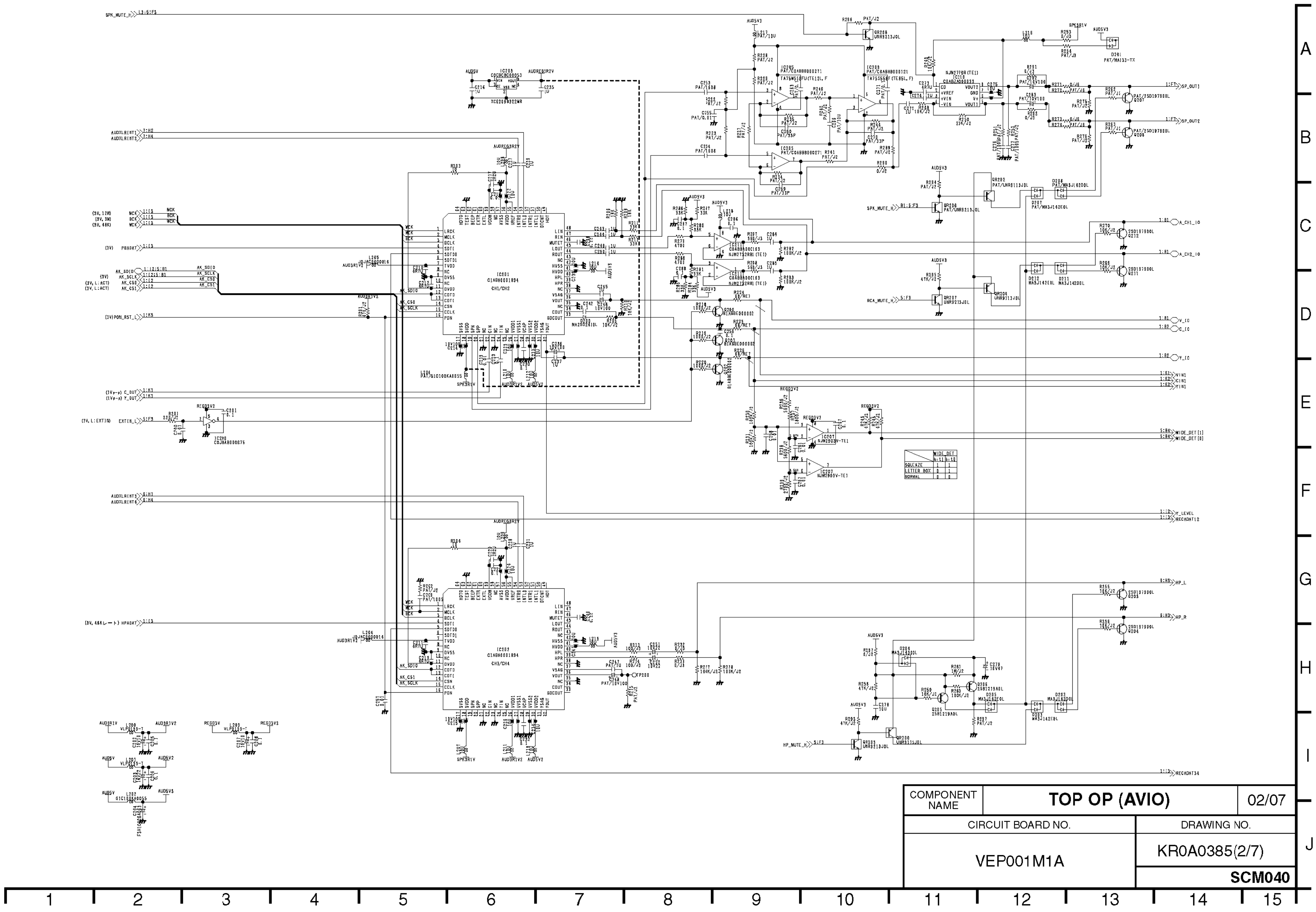
14
15
to CAMERA
WR-80P-HF-HD-A1E-R1200
P107
K1KA80A0028
to POWER_SW
FH12-6S-0.5SH(78)
P105
K1MN06BA0059
to SIDE_JACK2
FH12-12S-0.5SH(78)
P103
K1MN12BA0059
to ZOOM
FH12-6S-0.5SH(78)
P102
K1MN06BA0059
to SIDE_JACK1
FH23-45S-0.3SHW(40)
P100
K1MN45BB0033
to HANDLE
TO EVF
WR-50S-VFH05-N1-R1500
P104
K1KA50A0014
to SPEAKER
to P2_CARD
WR-FL70P-VF60-N1-R1200
P101
K1KY70AA0002
IC100
C0CBCDC00008
XC6209B501MR
AUD_NOREG
AUD_REG5V
C100 1U
C101 1U
ECJ2FB1E105K
D100
D101
D102
AGND
9VA
D5V
AUD5V
EVF8R5V
EVF3V
EVF_BL_5V

COMPONENT NAME	TOP OP (CONNECTOR)	01/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001M1A	KR0A0385(1/7)	
	SCM039	


SPK_MUTE_H
AUDXLRINT1
AUDXLRINT2
AUDXLRINT3
AUDXLRINT4
WCK
BCK
MCK
PBADAT
AK_SDIO
AK_SCLK
AK_CS0
AK_CS1
PON_RST_L
C_OUT
Y_OUT
EXTIN_L
HPADAT
IC201
C1AB00001894
CH1/CH2
IC202
C1AB00001894
CH3/CH4
IC203
XC6209B332MR
IC205
IC206
IC209
IC210
IC211
IC207
SP_OUT1
SP_OUT2
A_CH1_IO
A_CH2_IO
RCA_MUTE_H
V_IO
C_IO
Y_IO
VIN1
CIN1
YIN1
WIDE_DET[1]
WIDE_DET[0]
SQUEEZE
LETTER BOX
NORMAL
Y_LEVEL
RECADAT12
HP_L
HP_R
HP_MUTE_H
RECADAT34
AUD3R1V
AUD3R1V2
AUD5V
AUD5V2
AUD5V3
REG3V
REG3V1
A
B
C
D
E
F
G
H
I
J
1
2
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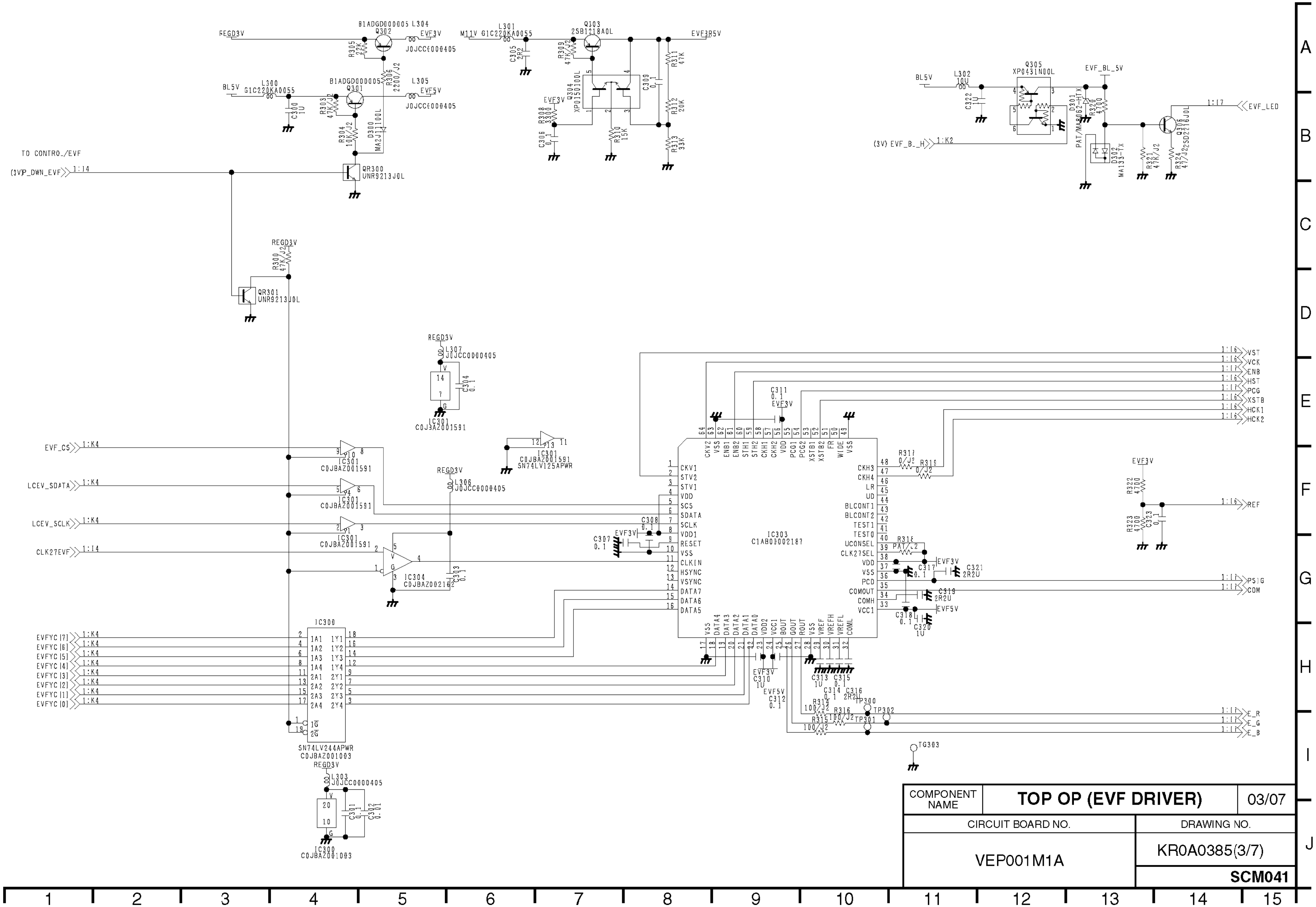
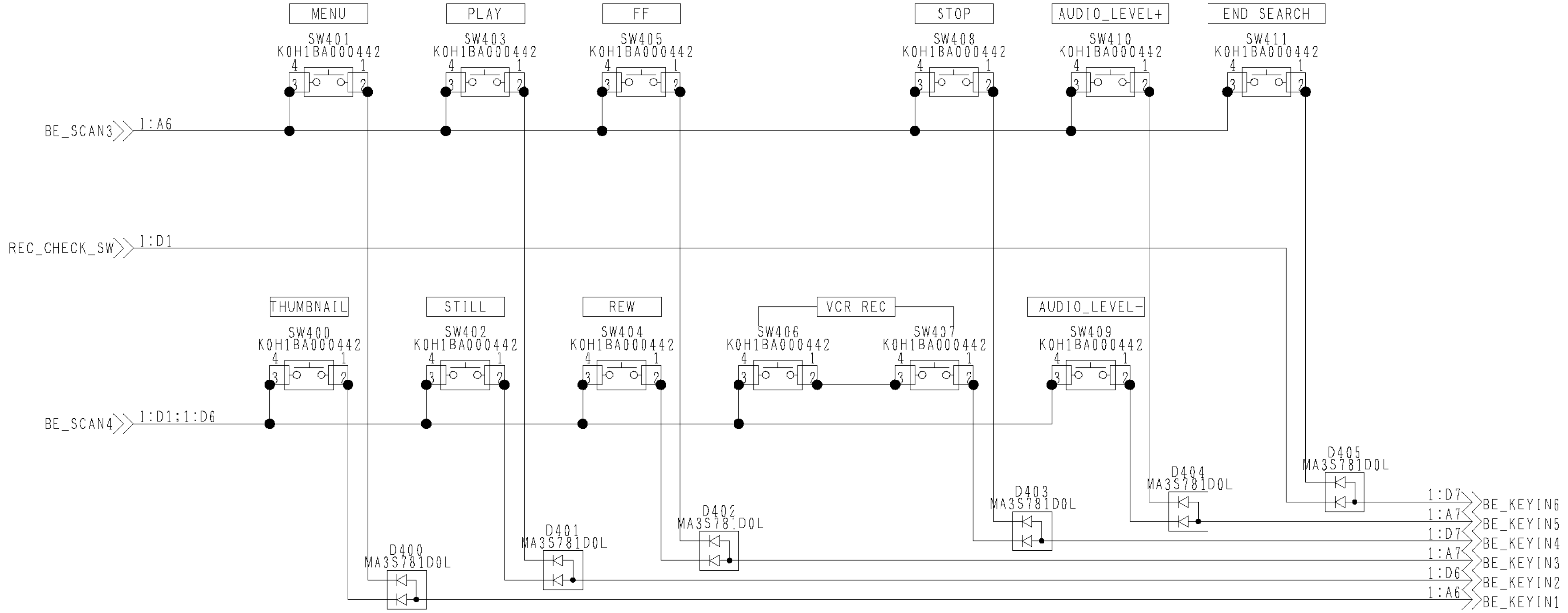
COMPONENT NAME	TOP OP (AVIO)	02/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP001M1A		KR0A0385(2/7)
		SCM040


A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
REGD3V
B1ADGD000005 L304
Q302
EVF3V
R305 22K
J0JCC0000405
BL5V
L300 G1C220KA0055
B1ADGD000005
Q301
R306 2200/J2
L305
EVF5V
C300 1U
R303 47K/J2
R304 10K/J2
D300 MA2J1100L
TO CONTRO./EVF
(3V)P_DWN_EVF
1:14
QR300 UNR9213J0L
M11V G1C220KA0055
L301
C305 2R2
Q103 2SB1218A0L
R309 47K/J2
Q304 XP0150100L
EVF3V
R308 3300
C306 0.1
R310 15K
C309 0.1
EVF3R5V
R311 47K
R312 20K
R313 33K
BL5V
L302 10U
C322 1U
Q305 XP0431N00L
EVF_BL_5V
D301 PAT/MA8062-HTX
R320 4700
D302 MA133-TX
R321 47K/J2
Q306 2SD2216J0L
R324 47/J2
1:17
EVF_LED
(3V) EVF_B._H
1:K2
REGD3V
R300 47K/J2
QR301 UNR9213J0L
L307 J0JCC0000405
C304 0.1
IC301 C0JBAZ001591
EVF_CS
1:K4
LCEV_SDATA
LCEV_SCLK
CLK27EVF
1:14
IC301 C0JBAZ001591
SN74LV125APWR
L306 J0JCC0000405
IC304 C0JBAZ00216
C303 0.1
C307 0.1
C308 0.1
C311 0.1
IC303 C1AB00002187
CKV1
STV2
STV1
VDD
SCS
SDATA
SCLK
VDD1
RESET
VSS
CLKIN
HSYNC
VSYNC
DATA7
DATA6
DATA5
CKV2
VSS
ENB1
ENB2
STH1
STH2
CKH1
CKH2
VDD
PCG1
PCG2
XSTB1
XSTB2
FR
WIDE
CKH3
CKH4
LR
UD
BLCONT1
BLCONT2
TEST1
TEST0
UCONSEL
CLK27SEL
PCD
COMOUT
COMH
VCC1
DATA4
DATA3
DATA2
DATA1
DATA0
VDD2
BOUT
GOUT
ROUT
VREF
VREFH
VREFL
COML
R317 0/J2
R319 0/J2
R318 PAT/J2
C317 0.1
C321 2R2U
C319 2R2U
C318 0.1
C320 1U
EVF5V
1:16 VST
1:16 VCK
1:17 ENB
1:17 HST
1:17 PCG
1:16 XSTB
1:16 HCK1
1:16 HCK2
R322 4700
R323 4700
C323 0.1
1:16 REF
1:17 PSIG
1:17 COM
C310 1U
C312 0.1
C313 1U
C314 0.1
C315 0.1
C316 2R2U
R314 100/J2
R315 100/J2
R316 100/J2
TP300
TP301
TP302
1:17 E_R
1:17 E_G
1:17 E_B
TG303
IC300
EVFYC[7]
EVFYC[6]
EVFYC[5]
EVFYC[4]
EVFYC[3]
EVFYC[2]
EVFYC[1]
EVFYC[0]
SN74LV244APWR
C0JBAZ001003
L303 J0JCC0000405
C301 0.1
C302 0.01

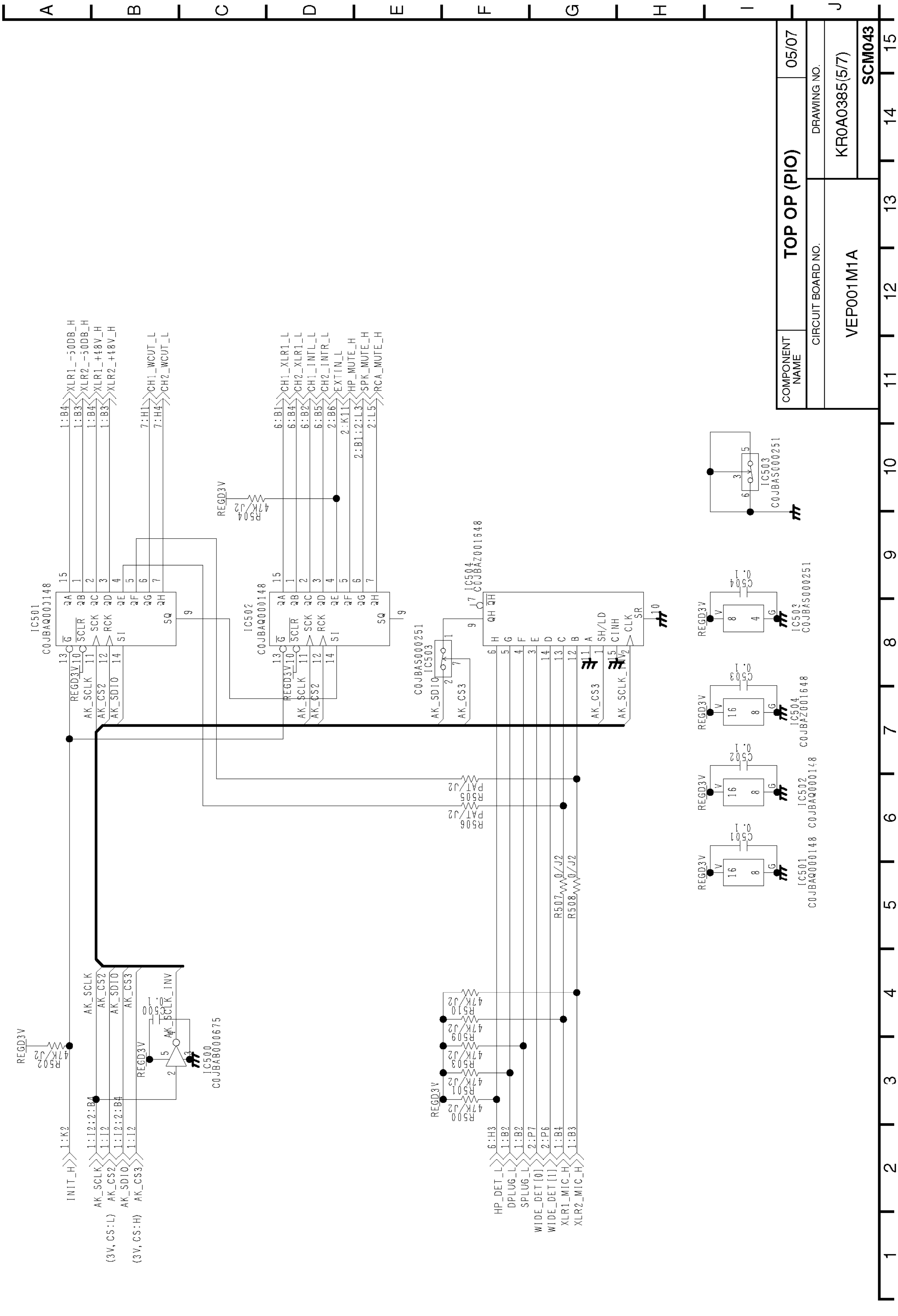
COMPONENT NAME
TOP OP (EVF DRIVER)
03/07

CIRCUIT BOARD NO.
VEP001M1A

DRAWING NO.
KR0A0385(3/7)
SCM041


MENU
SW401
K0H1BA000442
PLAY
SW403
K0H1BA000442
FF
SW405
K0H1BA000442
STOP
SW408
K0H1BA000442
AUDIO_LEVEL+
SW410
K0H1BA000442
END SEARCH
SW411
K0H1BA000442
BE_SCAN3
1:A6
REC_CHECK_SW
1:D1
THUMBNAIL
SW400
K0H1BA000442
STILL
SW402
K0H1BA000442
REW
SW404
K0H1BA000442
VCR REC
SW406
K0H1BA000442
SW407
K0H1BA000442
AUDIO_LEVEL-
SW409
K0H1BA000442
BE_SCAN4
1:D1;1:D6
D400
MA3S781D0L
D401
MA3S781D0L
D402
MA3S781D0L
D403
MA3S781D0L
D404
MA3S781D0L
D405
MA3S781D0L
1:D7
BE_KEYIN6
1:A7
BE_KEYIN5
1:D7
BE_KEYIN4
1:A7
BE_KEYIN3
1:D6
BE_KEYIN2
1:A6
BE_KEYIN1

COMPONENT NAME	TOP OP (OPERATION SW)	04/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP001M1A		KR0A0385(4/7)
		SCM042


IC501
C0JBAQ000148
IC502
C0JBAQ000148
IC503
C0JBAS000251
IC504
C0JBAZ001648
IC500
C0JBAB000675
REGD3V
R502 47K/J2
R504 47K/J2
R505 PAT/J2
R506 PAT/J2
R507 0/J2
R508 0/J2
R500 47K/J2
R501 47K/J2
R503 47K/J2
R509 47K/J2
R510 47K/J2
C500 0.1
C501 0.1
C502 0.1
C503 0.1
C504 0.1
INIT_H
AK_SCLK
AK_CS2
AK_SDIO
AK_CS3
AK_SCLK_INV
(3V,CS:L)
(3V,CS:H)
HP_DET_L
DPLUG_L
SPLUG_L
WIDE_DET[0]
WIDE_DET[1]
XLR1_MIC_H
XLR2_MIC_H
XLR1_-30DB_H
XLR2_-30DB_H
XLR1_+48V_H
XLR2_+48V_H
CH1_WCUT_L
CH2_WCUT_L
CH1_XLR1_L
CH2_XLR1_L
CH1_INTL_L
CH2_INTR_L
EXTIN_L
HP_MUTE_H
SPK_MUTE_H
RCA_MUTE_H
QA QB QC QD QE QF QG QH SQ
G SCLR SCK RCK SI
H G F E D C B A SH/LD CINH CLK SR QH
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

COMPONENT NAME

TOP OP (PIO)

05/07

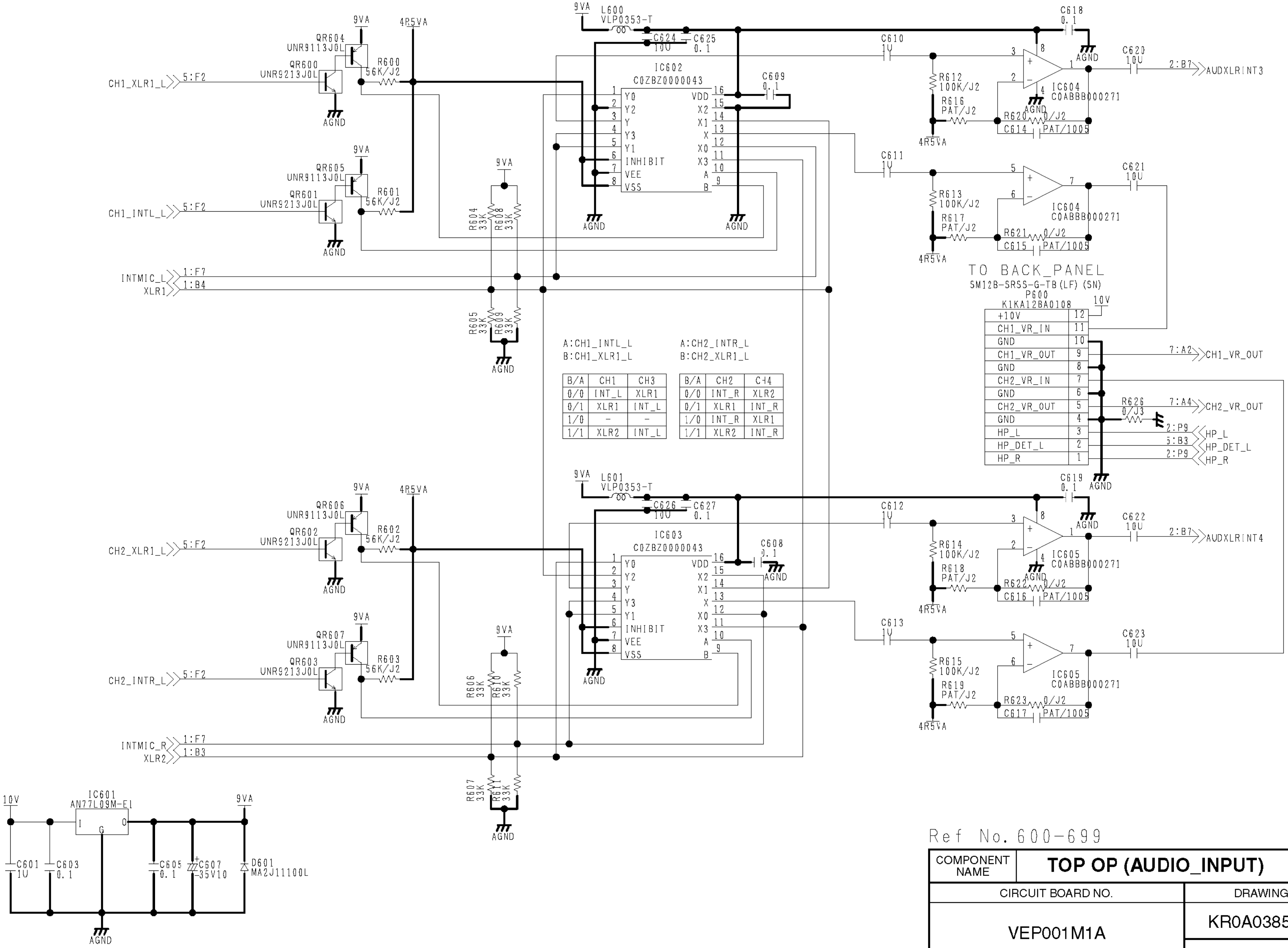
CIRCUIT BOARD NO.

VEP001M1A

DRAWING NO.

KR0A0385(5/7)

SCM043


CH1_XLR1_L
5:F2
CH1_INTL_L
INTMIC_L
1:F7
XLR1
1:B4
CH2_XLR1_L
CH2_INTR_L
INTMIC_R
XLR2
1:B3
QR604 UNR9113J0L
QR600 UNR9213J0L
QR605 UNR9113J0L
QR601 UNR9213J0L
QR606 UNR9113J0L
QR602 UNR9213J0L
QR607 UNR9113J0L
QR603 UNR9213J0L
R600 56K/J2
R601 56K/J2
R602 56K/J2
R603 56K/J2
9VA
4R5VA
AGND
L600 VLP0353-T
L601 VLP0353-T
C624 10U
C625 0.1
C626 10U
C627 0.1
C609 0.1
C608 0.1
IC602 C0ZBZ0000043
IC603 C0ZBZ0000043
Y0 Y2 Y Y3 Y1 INHIBIT VEE VSS
VDD X2 X1 X X0 X3 A B
R604 33K
R608 33K
R605 33K
R609 33K
R606 33K
R610 33K
R607 33K
R611 33K
C610 1U
C611 1U
C612 1U
C613 1U
R612 100K/J2
R613 100K/J2
R614 100K/J2
R615 100K/J2
R616 PAT/J2
R617 PAT/J2
R618 PAT/J2
R619 PAT/J2
R620 0/J2
R621 0/J2
R622 0/J2
R623 0/J2
C614 PAT/1005
C615 PAT/1005
C616 PAT/1005
C617 PAT/1005
IC604 C0ABBB000271
IC605 C0ABBB000271
C618 0.1
C619 0.1
C620 10U
C621 10U
C622 10U
C623 10U
2:B7
AUDXLRINT3
AUDXLRINT4
TO BACK_PANEL
5M12B-5R5S-G-TB(LF)(SN)
P600
K1KA12BA0108
10V
+10V
CH1_VR_IN
GND
CH1_VR_OUT
CH2_VR_IN
CH2_VR_OUT
HP_L
HP_DET_L
HP_R
7:A2
7:A4
R626 0/J3
2:P9
5:B3
IC601 AN77L09M-E1
C601 1U
C603 0.1
C605 0.1
C607 35V10
D601 MA2J11100L

A:CH1_INTL_L
B:CH1_XLR1_L

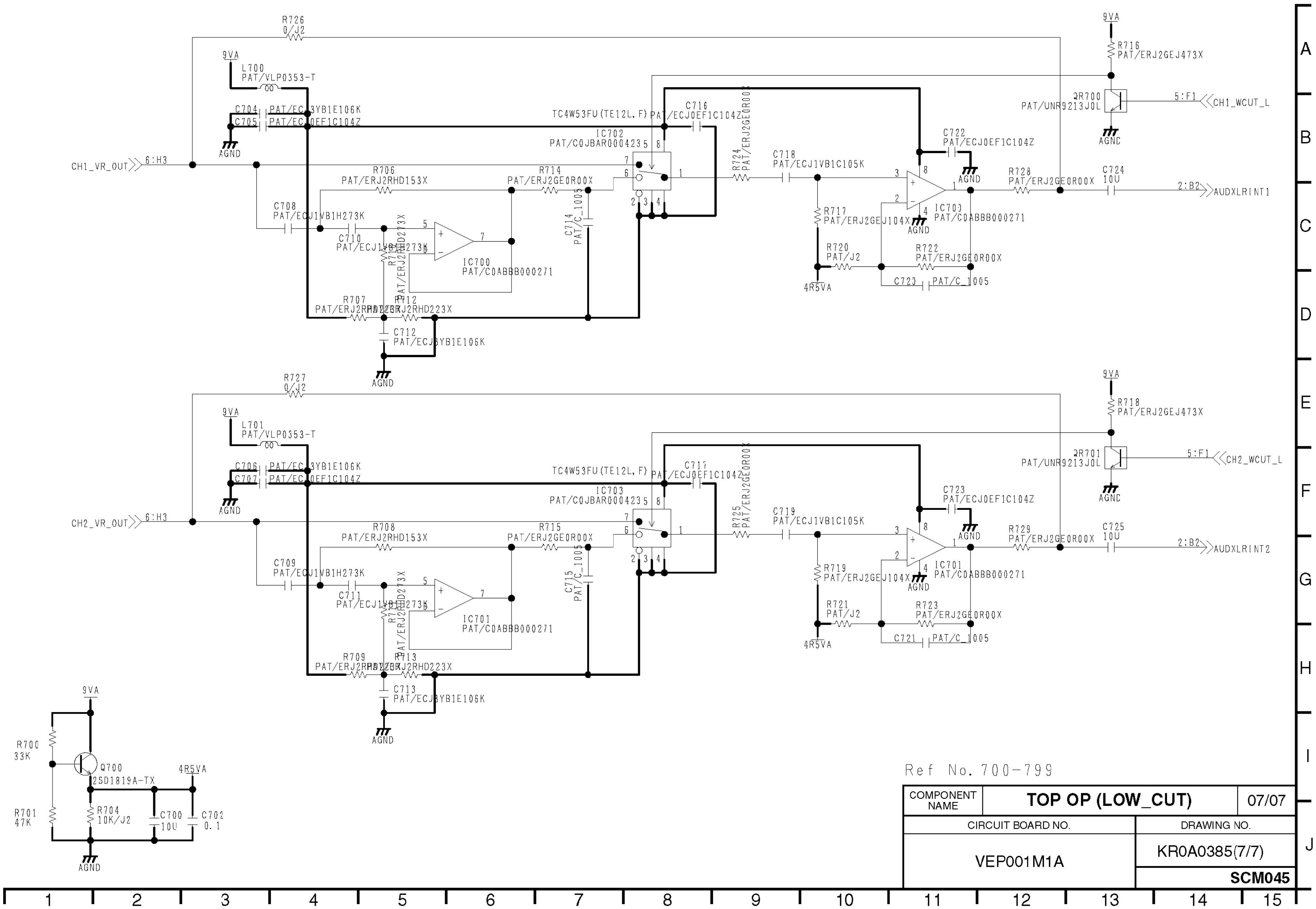
B/A	CH1	CH3
0/0	INT_L	XLR1
0/1	XLR1	INT_L
1/0	-	-
1/1	XLR2	INT_L

A:CH2_INTR_L
B:CH2_XLR1_L

B/A	CH2	CH4
0/0	INT_R	XLR2
0/1	XLR1	INT_R
1/0	INT_R	XLR1
1/1	XLR2	INT_R

Ref No. 600-699

COMPONENT NAME	TOP OP (AUDIO_INPUT)	06/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001M1A	KR0A0385(6/7)	
	SCM044	


A
B
C
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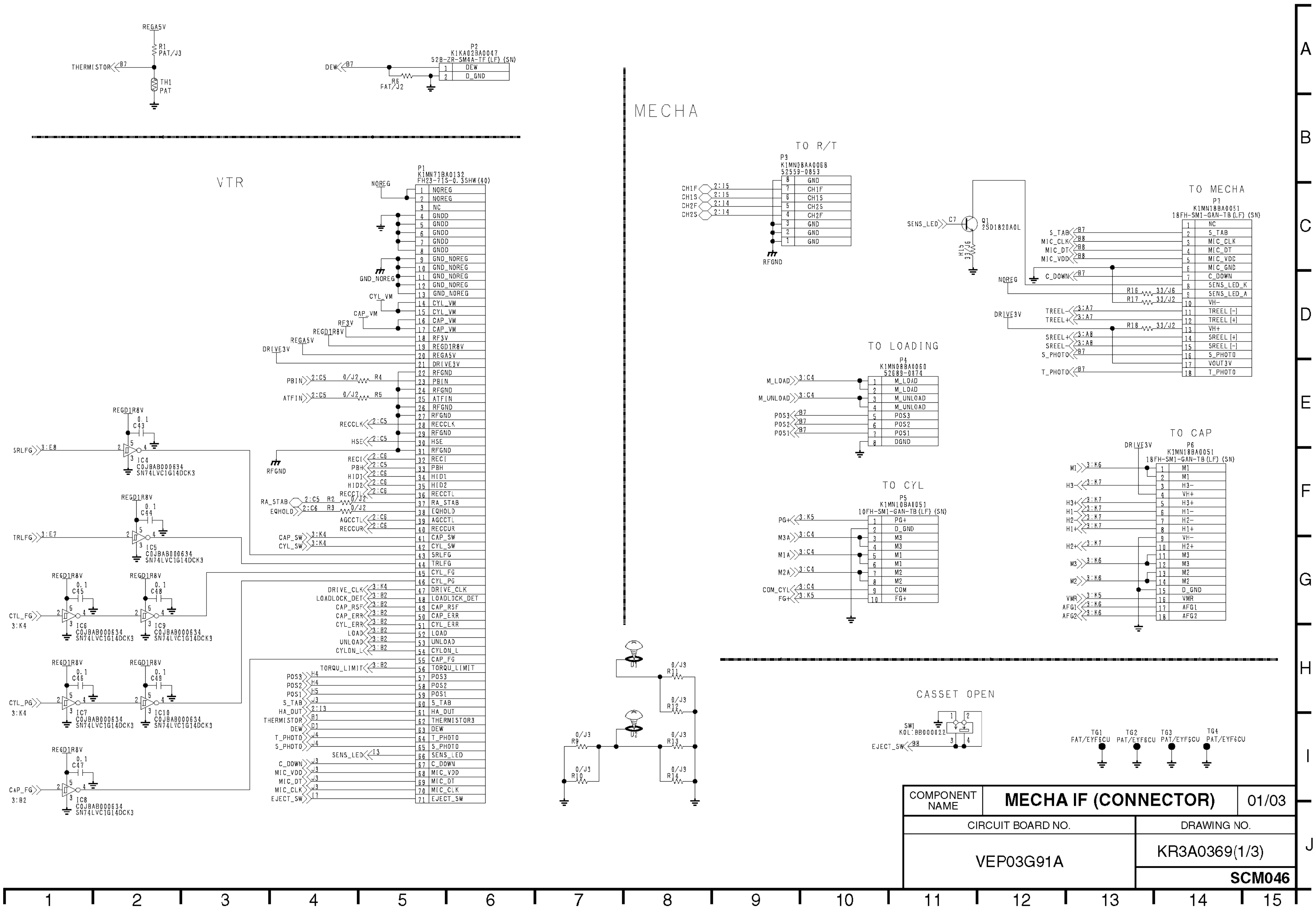
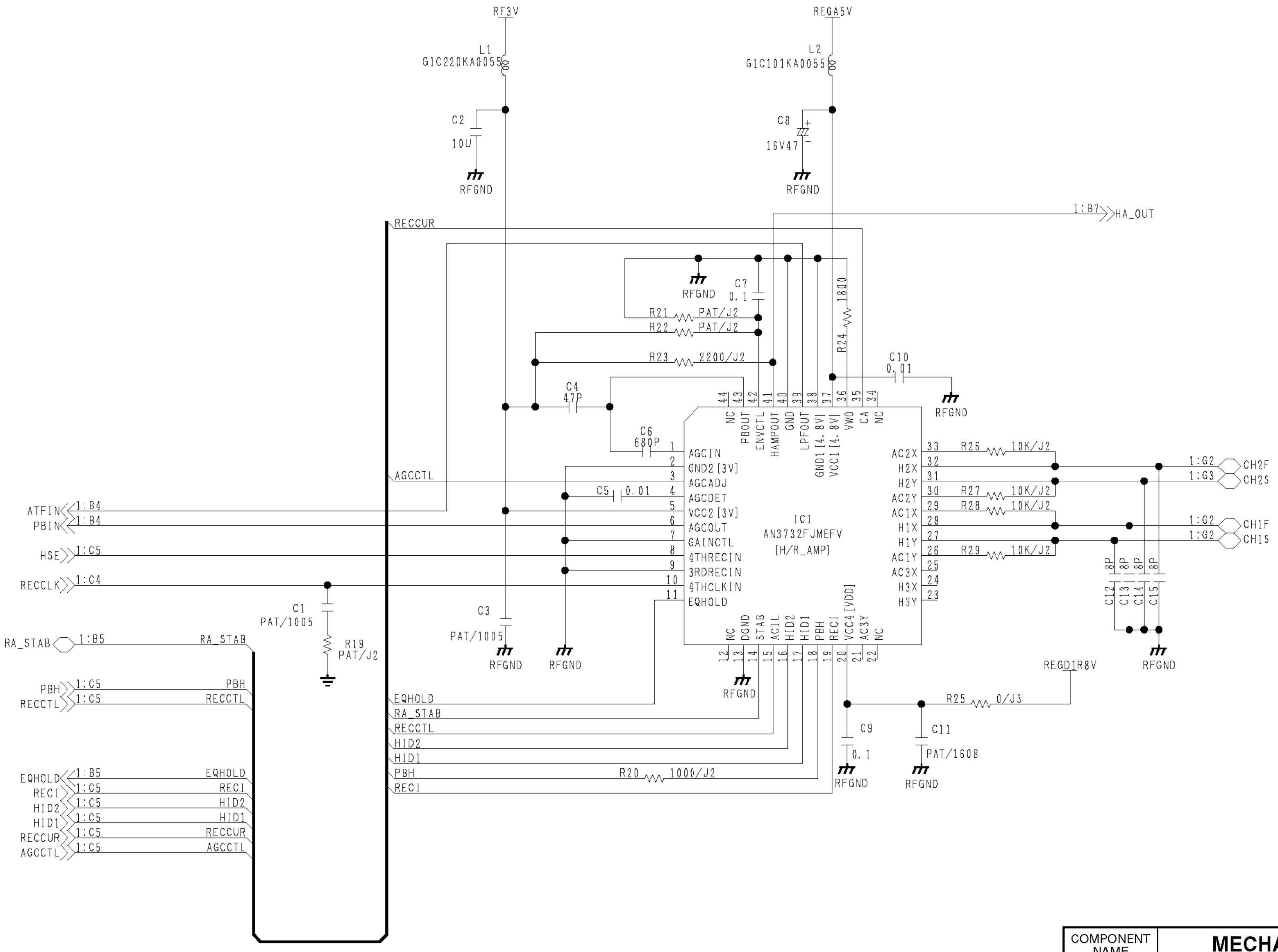
10
11
12
13
14
15
CH1_VR_OUT
6:H3
R726
0/J2
9VA
L700
PAT/VLP0353-T
C704
C705
PAT/ECJ3YB1E106K
PAT/ECJ0EF1C104Z
AGND
C708
PAT/ECJ1VB1H273K
C710
PAT/ECJ1VB1H273K
R706
PAT/ERJ2RHD153X
R710
PAT/ERJ2RHD273X
IC700
PAT/C0ABBB000271
R707
PAT/ERJ2RHD223X
R712
PAT/ERJ2RHD223X
C712
PAT/ECJ3YB1E106K
R714
PAT/ERJ2GE0R00X
C714
PAT/C_1005
TC4W53FU(TE12L,F)
IC702
PAT/C0JBAR000423
C716
PAT/ECJ0EF1C104Z
R724
PAT/ERJ2GE0R00X
C718
PAT/ECJ1VB1C105K
R717
PAT/ERJ2GEJ104X
R720
PAT/J2
4R5VA
C722
PAT/ECJ0EF1C104Z
IC703
PAT/C0ABBB000271
R722
PAT/ERJ2GE0R00X
C723
PAT/C_1005
R728
PAT/ERJ2GE0R00X
C724
10U
2:B2
AUDXLRINT1
R716
PAT/ERJ2GEJ473X
QR700
PAT/UNR9213J0L
5:F1
CH1_WCUT_L
AGNC
CH2_VR_OUT
6:H3
R727
0/J2
L701
PAT/VLP0353-T
C706
C707
C709
C711
R708
PAT/ERJ2RHD153X
R711
IC701
PAT/C0ABBB000271
R709
R713
C713
R715
C715
IC703
C717
R725
C719
R719
R721
C723
IC701
R723
C721
R729
C725
AUDXLRINT2
R718
QR701
CH2_WCUT_L
R700
33K
R701
47K
Q700
2SD1819A-TX
R704
10K/J2
C700
10U
C702
0.1
4R5VA
9VA
AGND

Ref No. 700-799

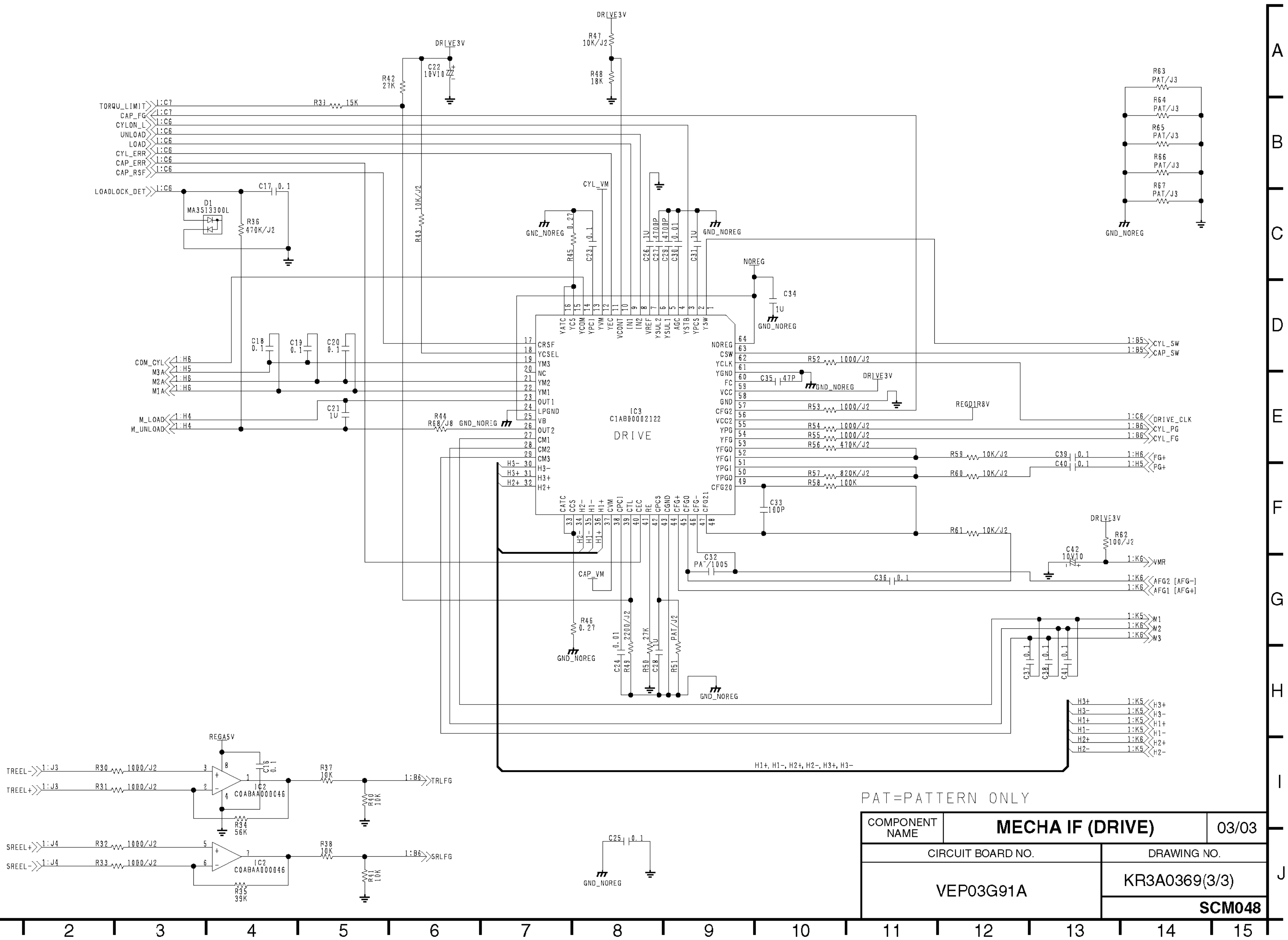
COMPONENT NAME	TOP OP (LOW_CUT)	07/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001M1A	KR0A0385(7/7)	
	SCM045	


VTR
MECHA
TO R/T
TO MECHA
TO LOADING
TO CYL
TO CAP
CASSET OPEN
P1 K1MN71BA0132 FH23-71S-0.35HW(40)
P2 K1KA02BA0047 52B-2R-SM4A-TF(LF)(SN)
P3 K1MN08AA0068 52559-0853
P4 K1MN08BA0060 52689-0874
P5 K1MN10BA1051 10FH-SM1-GAN-TB(LF)(SN)
P6 K1MN18BA0051 18FH-SM1-GAN-TB(LF)(SN)
P7 K1MN18BA0051 18FH-SM1-GAN-TB(LF)(SN)
Q1 2SD1820A0L
SW1 K0L'BB000022
IC4 C0JBAB000634 SN74LVC1G14DCK3
IC5 C0JBAB000634 SN74LVC1G14DCK3
IC6 C0JBAB000634 SN74LVC1G14DCK3
IC7 C0JBAB000634 SN74LVC1G14DCK3
IC8 C0JBAB000634 SN74LVC1G14DCK3
IC9 C0JBAB000634 SN74LVC1G14DCK3
IC10 C0JBAB000634 SN74LVC1G14DCK3
TG1 FAT/EYF6CU
TG2 PAT/EYF6CU
TG3 PAT/EYF6CU
TG4 PAT/EYF6CU
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

COMPONENT NAME	MECHA IF (CONNECTOR)	01/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G91A	KR3A0369(1/3)	
	SCM046	


RF3V
L1
G1C220KA0055
C2
10U
RFGND
REGA5V
L2
G1C101KA0055
C8
16V47
RFGND
1:B7
HA_OUT
RECCUR
C7
0.1
R21 PAT/J2
R22 PAT/J2
R23 2200/J2
R24 1800
C10
0.01
C4
47P
C6
680P
C5 0.01
AGCCTL
ATFIN 1:B4
PBIN 1:B4
HSE 1:C5
RECCLK 1:C4
C1
PAT/1005
R19
PAT/J2
C3
PAT/1005
RA_STAB 1:B5
RA_STAB
PBH 1:C5
PBH
RECCTL 1:C5
RECCTL
EQHOLD 1:B5
EQHOLD
RECI 1:C5
RECI
HID2 1:C5
HID2
HID1 1:C5
HID1
RECCUR 1:C5
RECCUR
AGCCTL 1:C5
AGCCTL
EQHOLD
RA_STAB
RECCTL
HID2
HID1
PBH
RECI
R20 1000/J2
IC1
AN3732FJMEFV
[H/R_AMP]
1 AGCIN
2 GND2[3V]
3 AGCADJ
4 AGCDET
5 VCC2[3V]
6 AGCOUT
7 GAINCTL
8 4THRECIN
9 3RDRECIN
10 4THCLKIN
11 EQHOLD
12 NC
13 DGND
14 STAB
15 ACIL
16 HID2
17 HID1
18 PBH
19 RECI
20 VCC4[VDD]
21 AC3Y
22 NC
23 H3Y
24 H3X
25 AC3X
26 AC1Y
27 H1Y
28 H1X
29 AC1X
30 AC2Y
31 H2Y
32 H2X
33 AC2X
34 NC
35 CA
36 VWO
37 VCC1[4.8V]
38 GND1[4.8V]
39 LPFOUT
40 GND
41 HAMPOUT
42 ENVCTL
43 PBOUT
44 NC
R26 10K/J2
R27 10K/J2
R28 10K/J2
R29 10K/J2
1:G2 CH2F
1:G3 CH2S
1:G2 CH1F
1:G2 CH1S
C12 8P
C13 8P
C14 8P
C15 8P
RFGND
REGD1R8V
R25 0/J3
C9
0.1
C11
PAT/1608
RFGND
R/T
[H/R_AMP]

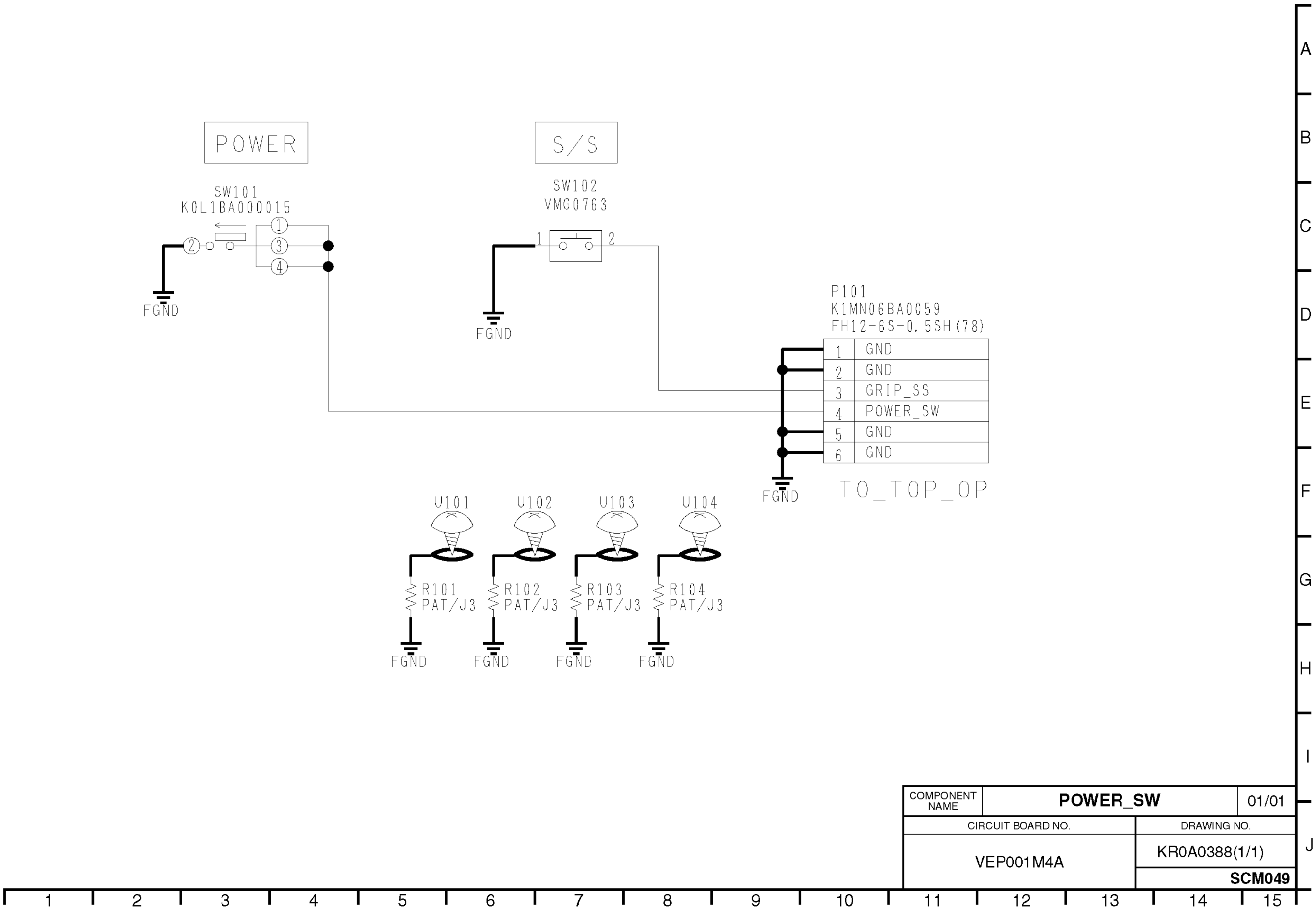
COMPONENT NAME	MECHA IF (HRAMP)	02/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G91A	KR3A0369(2/3)	
	SCM047	



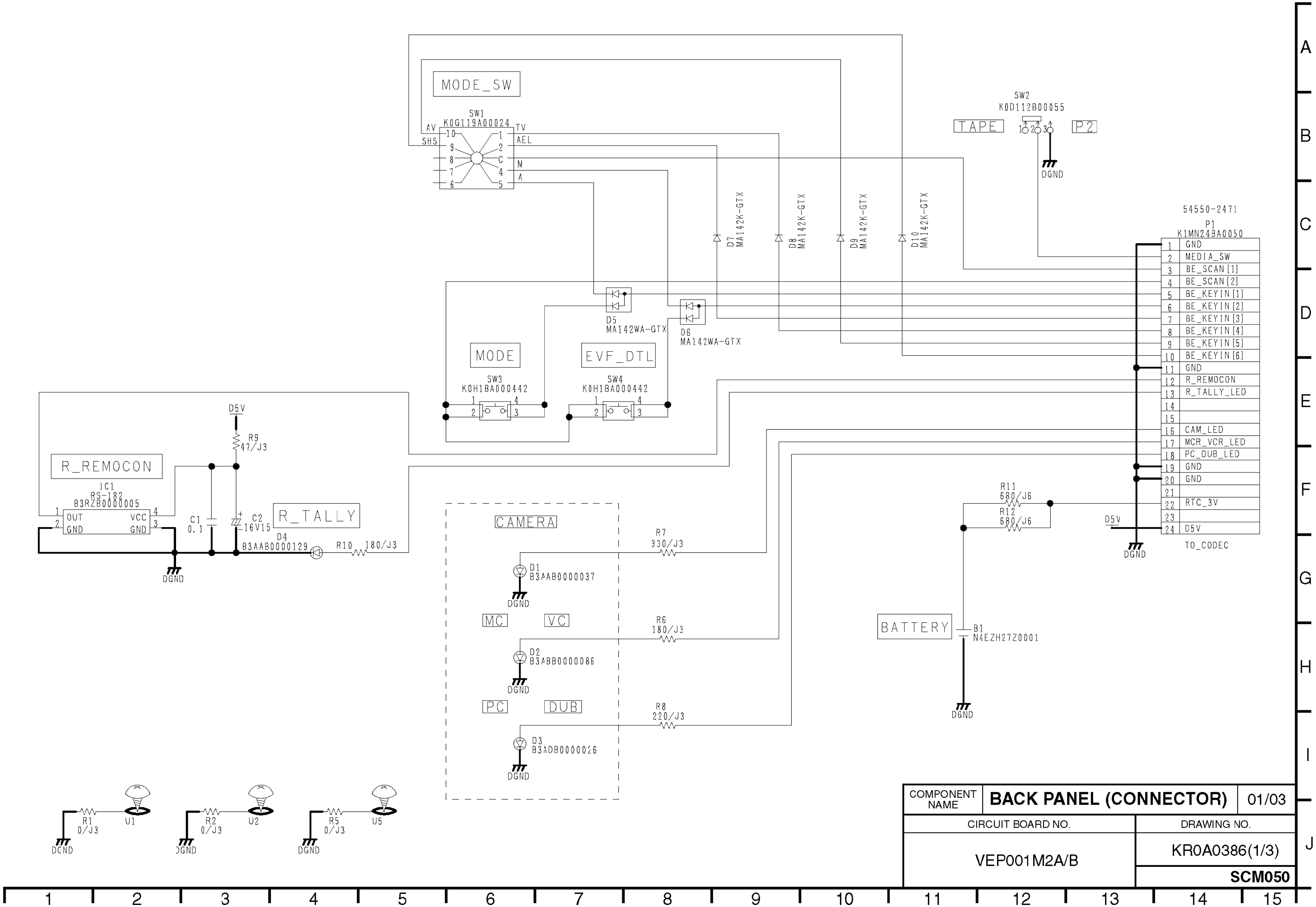
IC3
C1AB00002122
DRIVE
IC2
C0ABAA000046
D1
MA3S133OOL
TORQU_LIMIT
CAP_FG
CYLON_L
UNLOAD
LOAD
CYL_ERR
CAP_ERR
CAP_RSF
LOADLOCK_DET
COM_CYL
M3A
M2A
M1A
M_LOAD
M_UNLOAD
CYL_SW
CAP_SW
DRIVE_CLK
CYL_PG
CYL_FG
FG+
PG+
VMR
AFG2 [AFG-]
AFG1 [AFG+]
M1
M2
M3
H3+
H3-
H1+
H1-
H2+
H2-
H1+, H1-, H2+, H2-, H3+, H3-
TREEL-
TREEL+
SREEL+
SREEL-
TRLFG
SRLFG
REGA5V
DRIVE3V
NOREG
GND_NOREG
REGD1R8V
CYL_VM
CAP_VM
R63 PAT/J3
R64 PAT/J3
R65 PAT/J3
R66 PAT/J3
R67 PAT/J3
R47 10K/J2
R48 18K
R42 27K
R31 15K
R43 10K/J2
R36 470K/J2
R44 R68/J8
R45 0.27
R46 0.27
R52 1000/J2
R53 1000/J2
R54 1000/J2
R55 1000/J2
R56 470K/J2
R57 820K/J2
R58 100K
R59 10K/J2
R60 10K/J2
R61 10K/J2
R62 100/J2
R49 2200/J2
R50 27K
R51 PAT/J2
R30 1000/J2
R31 1000/J2
R32 1000/J2
R33 1000/J2
R34 56K
R35 39K
R37 10K
R38 10K
R40 10K
R41 10K
C22 10V10
C17 0.1
C18 0.1
C19 0.1
C20 0.1
C21 1U
C23 0.1
C26 1U
C27 4700P
C29 4700P
C30 0.01
C31 1U
C34 1U
C35 47P
C33 100P
C32 PAT/1005
C36 0.1
C39 0.1
C40 0.1
C42 10V10
C24 0.01
C28 1U
C37 0.1
C38 0.1
C41 0.1
C16 0.1
C25 0.1

PAT=PATTERN ONLY

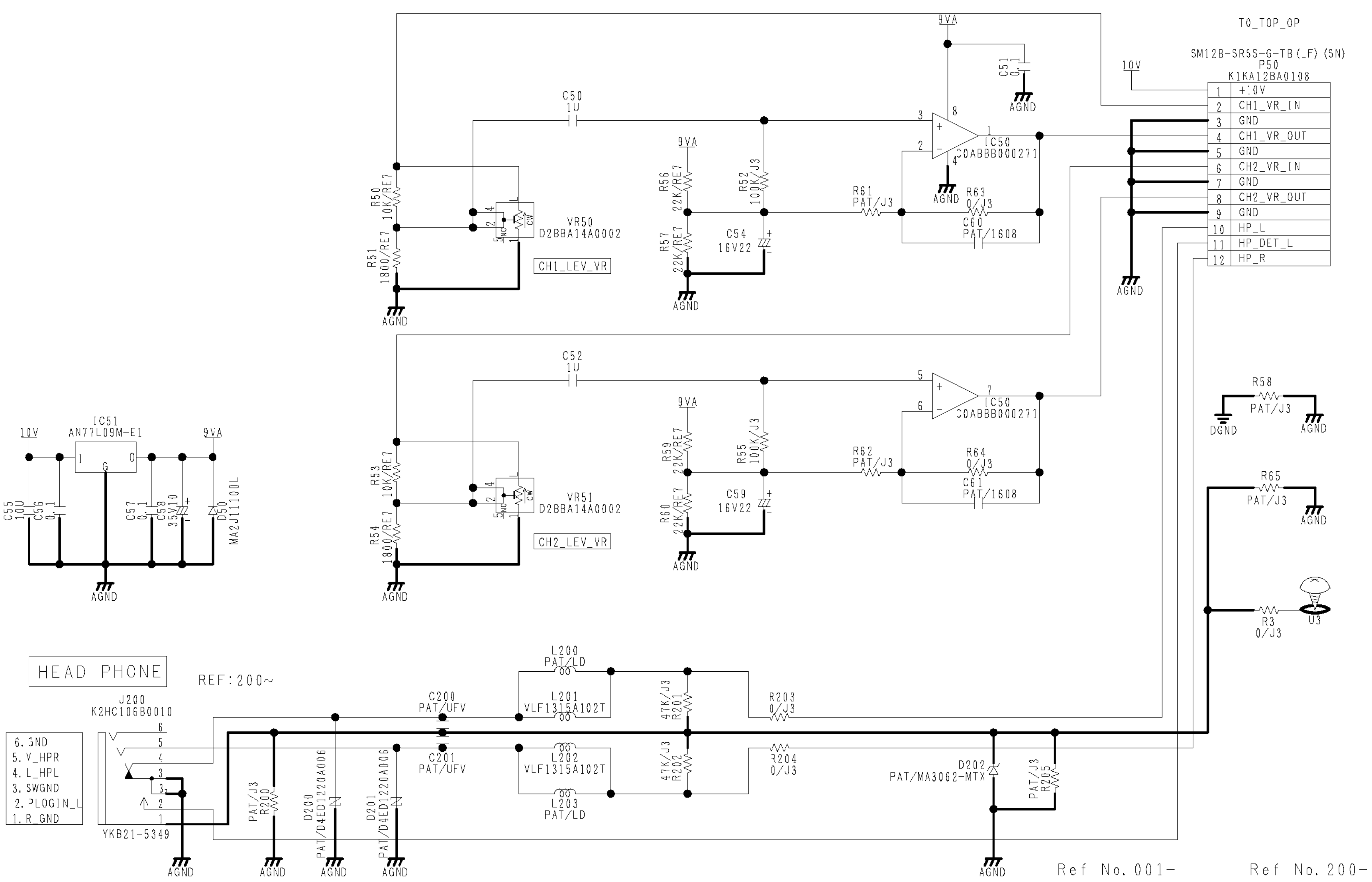
COMPONENT NAME	MECHA IF (DRIVE)	03/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G91A	KR3A0369(3/3)	
	SCM048	


POWER
S/S
SW101
K0L1BA000015
①
②
③
④
SW102
VMG0763
1
2
FGND
P101
K1MN06BA0059
FH12-6S-0.5SH(78)
1 GND
2 GND
3 GRIP_SS
4 POWER_SW
5 GND
6 GND
TO_TOP_OP
U101
U102
U103
U104
R101
PAT/J3
R102
PAT/J3
R103
PAT/J3
R104
PAT/J3
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

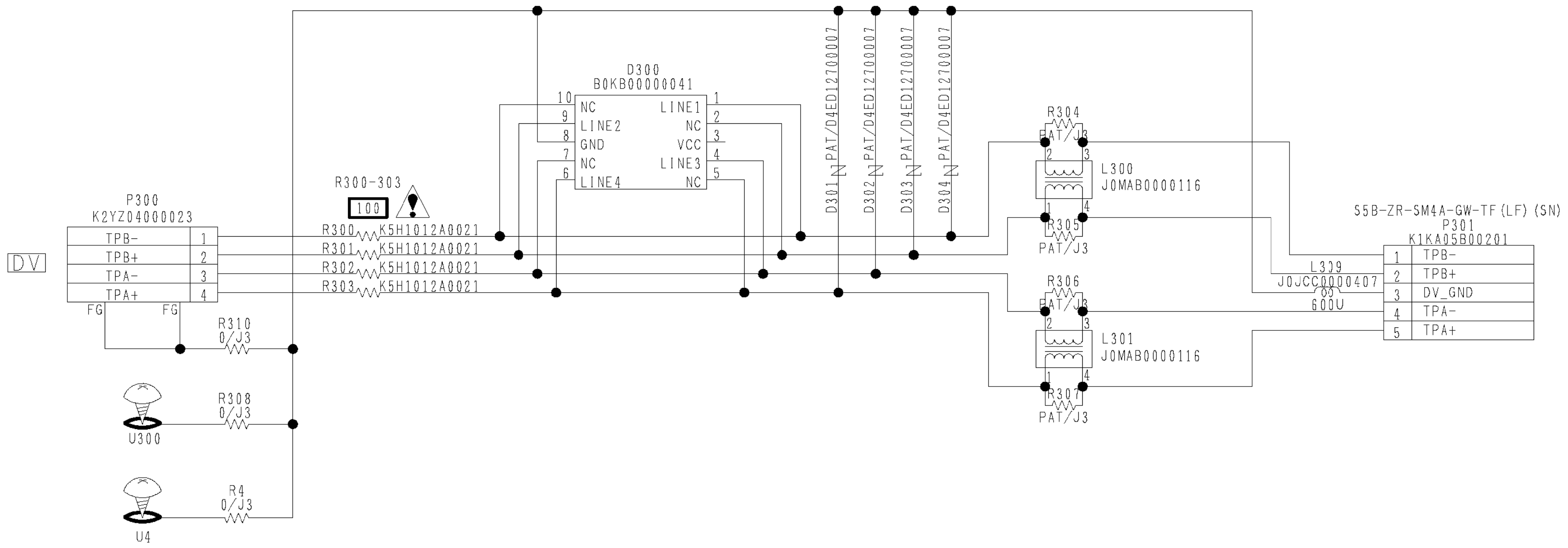
COMPONENT NAME	POWER_SW	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001M4A	KR0A0388(1/1) **SCM049**	


A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
MODE_SW
SW1
K0G119A00024
AV
SHS
TV
AEL
M
A
10
9
8
7
6
1
2
C
4
5
SW2
K0D112B00055
TAPE
P2
1
2
3
DGND
D7
MA142K-GTX
D8
MA142K-GTX
D9
MA142K-GTX
D10
MA142K-GTX
D5
MA142WA-GTX
D6
MA142WA-GTX
MODE
EVF_DTL
SW3
K0H1BA000442
SW4
K0H1BA000442
54550-2471
P1
K1MN24BA0050
1 GND
2 MEDIA_SW
3 BE_SCAN[1]
4 BE_SCAN[2]
5 BE_KEYIN[1]
6 BE_KEYIN[2]
7 BE_KEYIN[3]
8 BE_KEYIN[4]
9 BE_KEYIN[5]
10 BE_KEYIN[6]
11 GND
12 R_REMOCON
13 R_TALLY_LED
14
15
16 CAM_LED
17 MCR_VCR_LED
18 PC_DUB_LED
19 GND
20 GND
21
22 RTC_3V
23
24 D5V
TO_CODEC
DGND
D5V
R11
680/J6
R12
680/J6
BATTERY
B1
N4EZH27Z0001
DGND
R_REMOCON
IC1
RS-182
B3RZB0000005
OUT
GND
VCC
GND
D5V
R9
47/J3
C1
0.1
C2
16V15
R_TALLY
D4
B3AAB0000129
R10
180/J3
DGND
CAMERA
D1
B3AAB0000037
MC
VC
D2
B3ABB0000086
PC
DUB
D3
B3ADB0000026
R7
330/J3
R6
180/J3
R8
220/J3
DGND
R1
0/J3
U1
R2
0/J3
U2
R5
0/J3
U5
DCND
DGND

COMPONENT NAME	BACK PANEL (CONNECTOR)	01/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001M2A/B	KR0A0386(1/3)	
	SCM050	


TO_TOP_OP
SM12B-SRSS-G-TB(LF)(SN)
P50
K1KA12BA0108
10V
1 +10V
2 CH1_VR_IN
3 GND
4 CH1_VR_OUT
5 GND
6 CH2_VR_IN
7 GND
8 CH2_VR_OUT
9 GND
10 HP_L
11 HP_DET_L
12 HP_R
AGND
9VA
C51 0.1
IC50 C0ABBB000271
R63 0/J3
C60 PAT/1608
R61 PAT/J3
C50 1U
R56 22K/RE7
R52 100K/J3
R57 22K/RE7
C54 16V22
R50 10K/RE7
R51 1800/RE7
VR50 D2BBA14A0002
CH1_LEV_VR
C52 1U
R59 22K/RE7
R55 100K/J3
R60 22K/RE7
C59 16V22
R62 PAT/J3
R64 0/J3
C61 PAT/1608
R53 10K/RE7
R54 1800/RE7
VR51 D2BBA14A0002
CH2_LEV_VR
CW
NC
R58 PAT/J3
DGND
R65 PAT/J3
R3 0/J3
U3
IC51 AN77L09M-E1
I G O
C55 10U
C56 0.1
C57 0.1
C58 35V10
D50 MA2J1110OL
HEAD PHONE
REF:200~
J200 K2HC106B0010
YKB21-5349
6. GND
5. V_HPR
4. L_HPL
3. SWGND
2. PLOGIN_L
1. R_GND
C200 PAT/UFV
C201 PAT/UFV
L200 PAT/LD
L201 VLF1315A102T
L202 VLF1315A102T
L203 PAT/LD
R201 47K/J3
R202 47K/J3
R203 0/J3
R204 0/J3
R200 PAT/J3
D200 PAT/D4ED1220A006
D201 PAT/D4ED1220A006
D202 PAT/MA3062-MTX
R205 PAT/J3
Ref No. 001-
Ref No. 200-
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

COMPONENT NAME	BACK PANEL (AUDIO_VR)	02/03
CIRCUIT BOARD NO.		DRAWING NO.
VEP001M2A/B		KR0A0386(2/3)
		SCM051

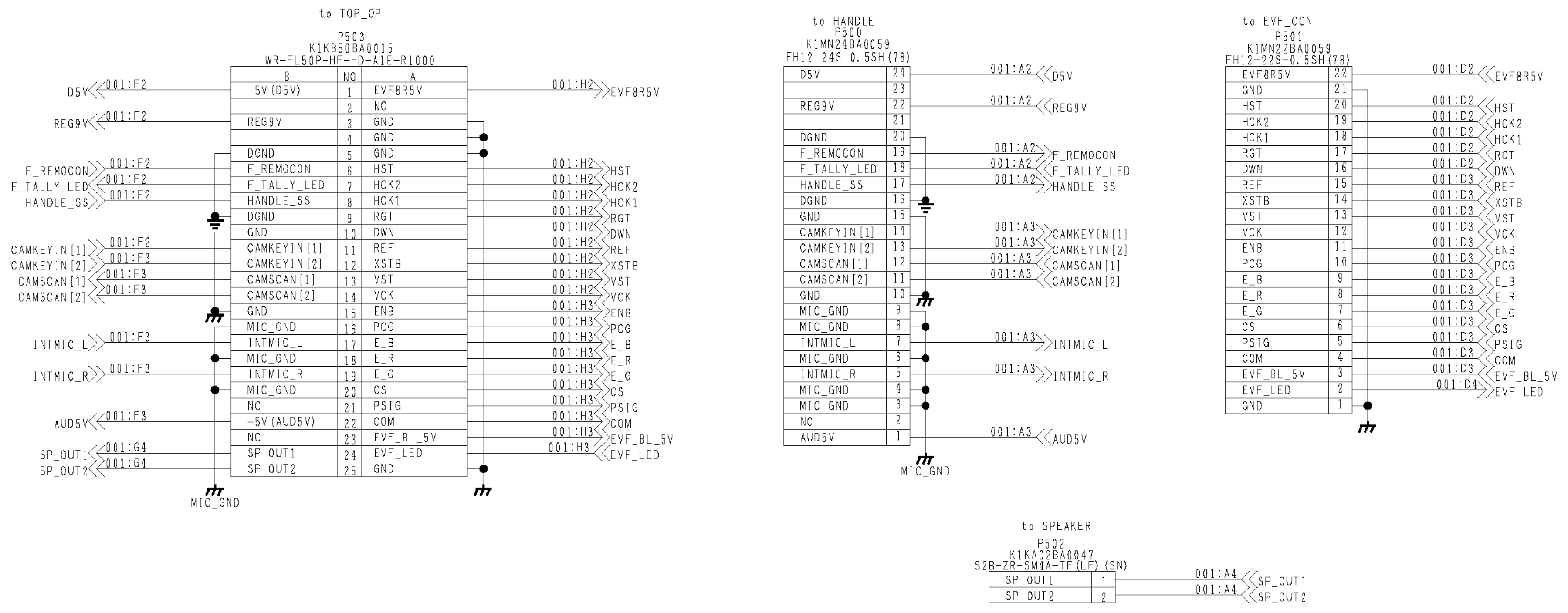

DV
P300
K2YZ04000023
TPB-
TPB+
TPA-
TPA+
1
2
3
4
FG
FG
R310
0/J3
R308
0/J3
R4
0/J3
U300
U4
R300-303
100
R300 K5H1012A0021
R301 K5H1012A0021
R302 K5H1012A0021
R303 K5H1012A0021
D300
B0KB00000041
NC
LINE2
GND
NC
LINE4
LINE1
NC
VCC
LINE3
NC
D301 PAT/D4ED12700007
D302 PAT/D4ED12700007
D303 PAT/D4ED12700007
D304 PAT/D4ED12700007
R304
PAT/J3
L300
J0MAB0000116
R305
PAT/J3
R306
PAT/J3
L301
J0MAB0000116
R307
PAT/J3
L309
J0JCC0000407
600U
S5B-ZR-SM4A-GW-TF(LF)(SN)
P301
K1KA05B00201
TPB-
TPB+
DV_GND
TPA-
TPA+

Ref No. 300-

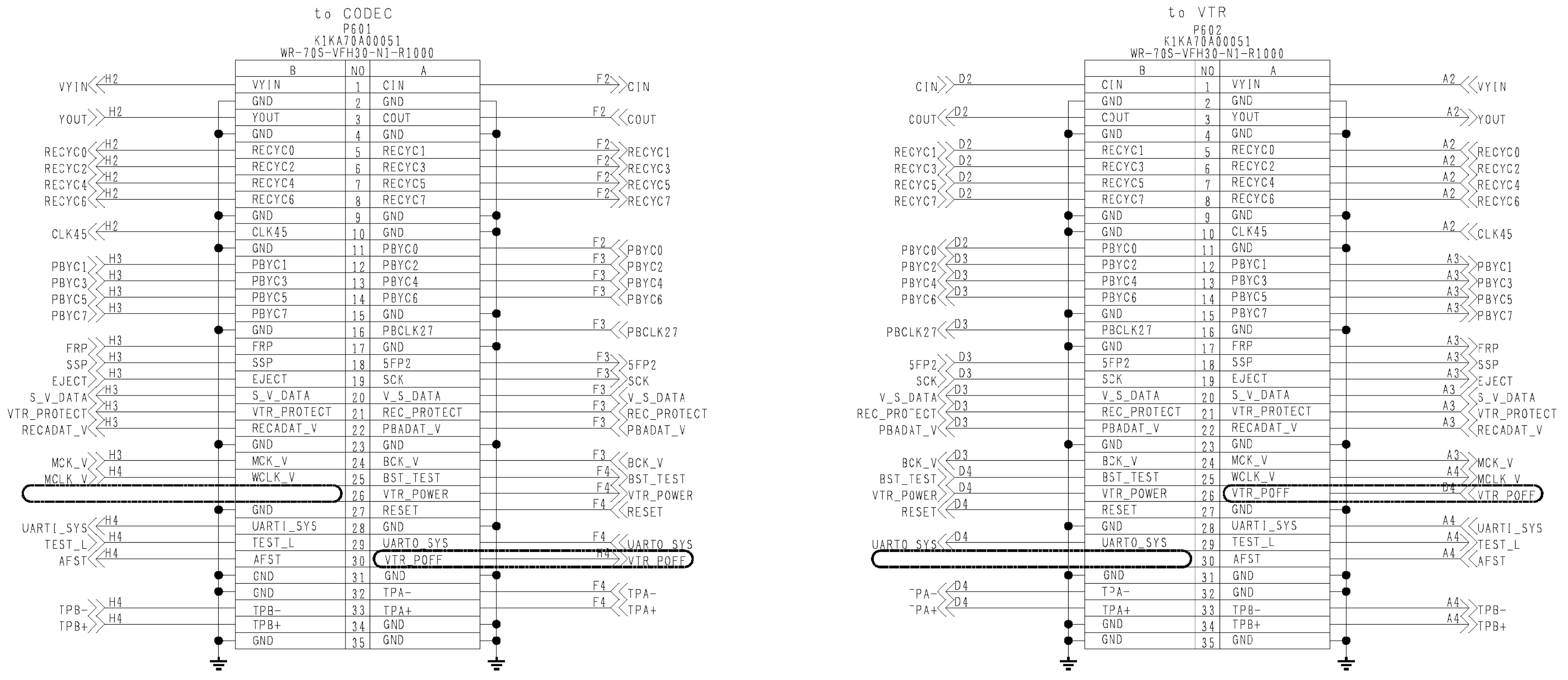
⚠ • • •

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

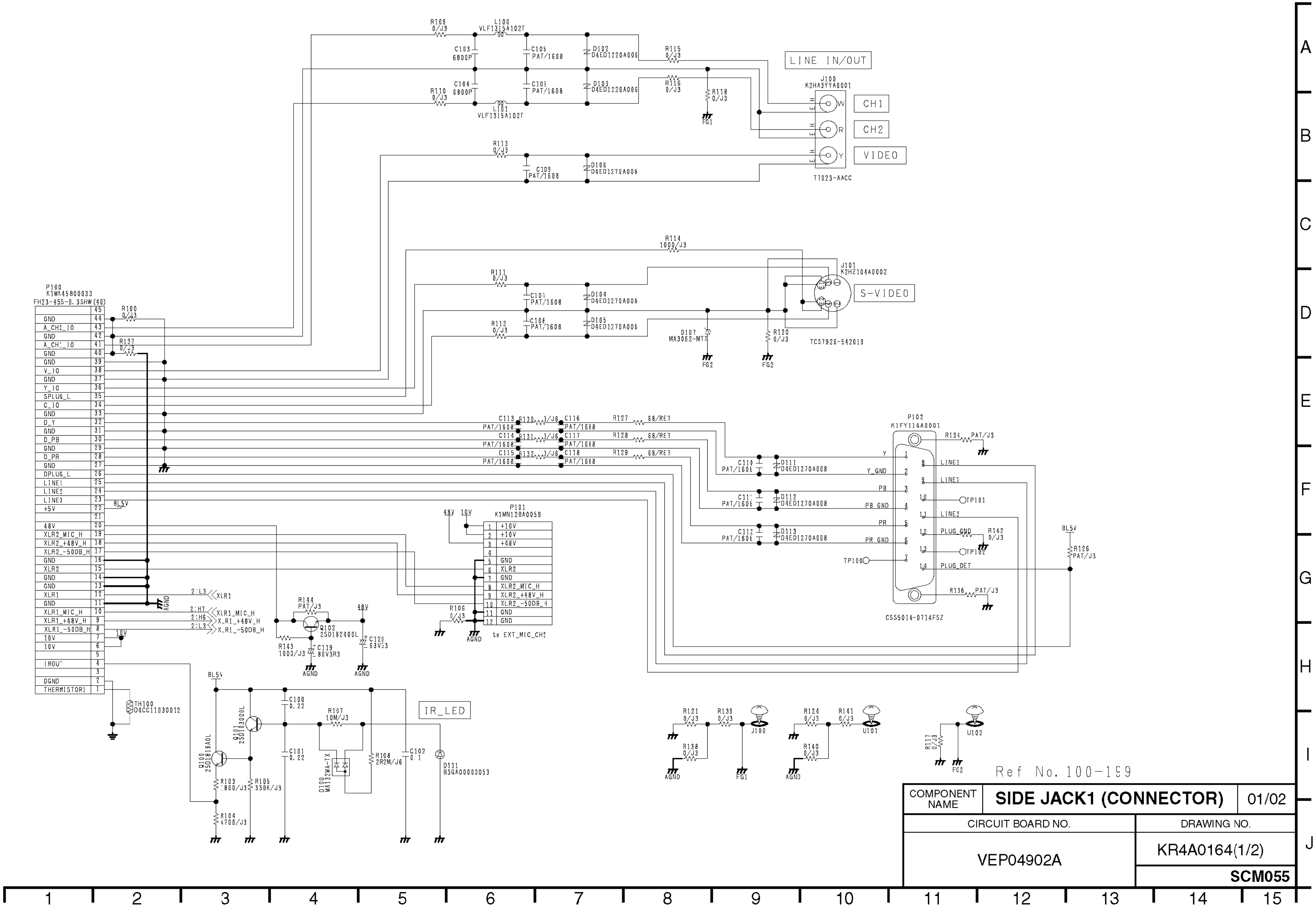
COMPONENT NAME	**BACK PANEL (1394 CONNECTOR)**	03/03
CIRCUIT BOARD NO.		DRAWING NO.
VEP001M2A/B		KR0A0386(3/3)
		SCM052


to TOP_OP
P503
K1KB50BA0015
WR-FL50P-HF-HD-A1E-R1000
B | NO | A
+5V(D5V) | 1 | EVF8R5V
2 | NC
REG9V | 3 | GND
4 | GND
DGND | 5 | GND
F_REMOCON | 6 | HST
F_TALLY_LED | 7 | HCK2
HANDLE_SS | 8 | HCK1
DGND | 9 | RGT
GND | 10 | DWN
CAMKEYIN[1] | 11 | REF
CAMKEYIN[2] | 12 | XSTB
CAMSCAN[1] | 13 | VST
CAMSCAN[2] | 14 | VCK
GND | 15 | ENB
MIC_GND | 16 | PCG
INTMIC_L | 17 | E_B
MIC_GND | 18 | E_R
INTMIC_R | 19 | E_G
MIC_GND | 20 | CS
NC | 21 | PSIG
+5V(AUD5V) | 22 | COM
NC | 23 | EVF_BL_5V
SP OUT1 | 24 | EVF_LED
SP OUT2 | 25 | GND
D5V 001:F2
REG9V 001:F2
F_REMOCON 001:F2
F_TALLY_LED 001:F2
HANDLE_SS 001:F2
CAMKEYIN[1] 001:F2
CAMKEYIN[2] 001:F3
CAMSCAN[1] 001:F3
CAMSCAN[2] 001:F3
INTMIC_L 001:F3
INTMIC_R 001:F3
AUD5V 001:F3
SP_OUT1 001:G4
SP_OUT2 001:G4
MIC_GND
001:H2 EVF8R5V
001:H2 HST
001:H2 HCK2
001:H2 HCK1
001:H2 RGT
001:H2 DWN
001:H2 REF
001:H2 XSTB
001:H2 VST
001:H2 VCK
001:H3 ENB
001:H3 PCG
001:H3 E_B
001:H3 E_R
001:H3 E_G
001:H3 CS
001:H3 PSIG
001:H3 COM
001:H3 EVF_BL_5V
001:H3 EVF_LED
to HANDLE
P500
K1MN24BA0059
FH12-24S-0.5SH(78)
D5V 24
23
REG9V 22
21
DGND 20
F_REMOCON 19
F_TALLY_LED 18
HANDLE_SS 17
DGND 16
GND 15
CAMKEYIN[1] 14
CAMKEYIN[2] 13
CAMSCAN[1] 12
CAMSCAN[2] 11
GND 10
MIC_GND 9
MIC_GND 8
INTMIC_L 7
MIC_GND 6
INTMIC_R 5
MIC_GND 4
MIC_GND 3
NC 2
AUD5V 1
001:A2 D5V
001:A2 REG9V
001:A2 F_REMOCON
001:A2 F_TALLY_LED
001:A2 HANDLE_SS
001:A3 CAMKEYIN[1]
001:A3 CAMKEYIN[2]
001:A3 CAMSCAN[1]
001:A3 CAMSCAN[2]
001:A3 INTMIC_L
001:A3 INTMIC_R
001:A3 AUD5V
MIC_GND
to EVF_CON
P501
K1MN22BA0059
FH12-22S-0.5SH(78)
EVF8R5V 22
GND 21
HST 20
HCK2 19
HCK1 18
RGT 17
DWN 16
REF 15
XSTB 14
VST 13
VCK 12
ENB 11
PCG 10
E_B 9
E_R 8
E_G 7
CS 6
PSIG 5
COM 4
EVF_BL_5V 3
EVF_LED 2
GND 1
001:D2 EVF8R5V
001:D2 HST
001:D2 HCK2
001:D2 HCK1
001:D2 RGT
001:D2 DWN
001:D3 REF
001:D3 XSTB
001:D3 VST
001:D3 VCK
001:D3 ENB
001:D3 PCG
001:D3 E_B
001:D3 E_R
001:D3 E_G
001:D3 CS
001:D3 PSIG
001:D3 COM
001:D3 EVF_BL_5V
001:D4 EVF_LED
to SPEAKER
P502
K1KA02BA0047
S2B-ZR-SM4A-TF(LF)(SN)
SP OUT1 1
SP OUT2 2
001:A4 SP_OUT1
001:A4 SP_OUT2

COMPONENT NAME	TOP_CON	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001N2A	KR0A0401(1/1)	
	SCM053	


to CODEC
P601
K1KA70A00051
WR-70S-VFH30-N1-R1000
B NO A
VYIN 1 CIN
GND 2 GND
YOUT 3 COUT
GND 4 GND
RECYC0 5 RECYC1
RECYC2 6 RECYC3
RECYC4 7 RECYC5
RECYC6 8 RECYC7
GND 9 GND
CLK45 10 GND
GND 11 PBYC0
PBYC1 12 PBYC2
PBYC3 13 PBYC4
PBYC5 14 PBYC6
PBYC7 15 GND
GND 16 PBCLK27
FRP 17 GND
SSP 18 5FP2
EJECT 19 SCK
S_V_DATA 20 V_S_DATA
VTR_PROTECT 21 REC_PROTECT
RECADAT_V 22 PBADAT_V
GND 23 GND
MCK_V 24 BCK_V
WCLK_V 25 BST_TEST
26 VTR_POWER
GND 27 RESET
UARTI_SYS 28 GND
TEST_L 29 UARTO_SYS
AFST 30 VTR_POFF
GND 31 GND
GND 32 TPA-
TPB- 33 TPA+
TPB+ 34 GND
GND 35 GND
VYIN H2
YOUT H2
RECYC0 H2
RECYC2 H2
RECYC4 H2
RECYC6 H2
CLK45 H2
PBYC1 H3
PBYC3 H3
PBYC5 H3
PBYC7 H3
FRP H3
SSP H3
EJECT H3
S_V_DATA H3
VTR_PROTECT H3
RECADAT_V H3
MCK_V H3
MCLK_V H4
UARTI_SYS H4
TEST_L H4
AFST H4
TPB- H4
TPB+ H4
F2 CIN
F2 COUT
F2 RECYC1
F2 RECYC3
F2 RECYC5
F2 RECYC7
F2 PBYC0
F3 PBYC2
F3 PBYC4
F3 PBYC6
F3 PBCLK27
F3 5FP2
F3 SCK
F3 V_S_DATA
F3 REC_PROTECT
F3 PBADAT_V
F3 BCK_V
F4 BST_TEST
F4 VTR_POWER
F4 RESET
F4 UARTO_SYS
H4 VTR_POFF
F4 TPA-
F4 TPA+
to VTR
P602
K1KA70A00051
WR-70S-VFH30-N1-R1000
B NO A
CIN 1 VYIN
GND 2 GND
COUT 3 YOUT
GND 4 GND
RECYC1 5 RECYC0
RECYC3 6 RECYC2
RECYC5 7 RECYC4
RECYC7 8 RECYC6
GND 9 GND
GND 10 CLK45
PBYC0 11 GND
PBYC2 12 PBYC1
PBYC4 13 PBYC3
PBYC6 14 PBYC5
GND 15 PBYC7
PBCLK27 16 GND
GND 17 FRP
5FP2 18 SSP
SCK 19 EJECT
V_S_DATA 20 S_V_DATA
REC_PROTECT 21 VTR_PROTECT
PBADAT_V 22 RECADAT_V
GND 23 GND
BCK_V 24 MCK_V
BST_TEST 25 WCLK_V
VTR_POWER 26 VTR_POFF
RESET 27 GND
GND 28 UARTI_SYS
UARTO_SYS 29 TEST_L
30 AFST
GND 31 GND
TPA- 32 GND
TPA+ 33 TPB-
GND 34 TPB+
GND 35 GND
CIN D2
COUT D2
RECYC1 D2
RECYC3 D2
RECYC5 D2
RECYC7 D2
PBYC0 D2
PBYC2 D3
PBYC4 D3
PBYC6 D3
PBCLK27 D3
5FP2 D3
SCK D3
V_S_DATA D3
REC_PROTECT D3
PBADAT_V D3
BCK_V D3
BST_TEST D4
VTR_POWER D4
RESET D4
UARTO_SYS D4
TPA- D4
TPA+ D4
A2 VYIN
A2 YOUT
A2 RECYC0
A2 RECYC2
A2 RECYC4
A2 RECYC6
A2 CLK45
A3 PBYC1
A3 PBYC3
A3 PBYC5
A3 PBYC7
A3 FRP
A3 SSP
A3 EJECT
A3 S_V_DATA
A3 VTR_PROTECT
A3 RECADAT_V
A3 MCK_V
A4 MCLK_V
D4 VTR_POFF
A4 UARTI_SYS
A4 TEST_L
A4 AFST
A4 TPB-
A4 TPB+

COMPONENT NAME	BOTTOM_CON		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP001N3A		KR0A0402(1/1)	
		SCM054	


LINE IN/OUT
J100
K2HA3YYA0001
CH1
CH2
VIDEO
T7023-AACC
R109 0/J3
L100 VLF1315A102T
L101 VLF1315A102T
C103 6800P
C104 6800P
C105 PAT/1608
C106 PAT/1608
D102 D4ED1220A006
D103 D4ED1220A006
R115 0/J3
R116 0/J3
R118 0/J3
R110 0/J3
FG1
R113 0/J3
C109 PAT/1608
D106 D4ED1270A008
R114 1000/J3
J101
K2HZ104A0002
S-VIDEO
TCS7926-542019
R111 0/J3
R112 0/J3
C107 PAT/1608
C108 PAT/1608
D104 D4ED1270A008
D105 D4ED1270A008
D107 MA3062-MT2
R120 0/J3
FG2
P100
K1MN45B00033
FH23-455-0.35HW(40)
45
GND 44
A_CH2_IO 43
GND 42
A_CH1_IO 41
GND 40
GND 39
V_IO 38
GND 37
Y_IO 36
SPLUG_L 35
C_IO 34
GND 33
D_Y 32
GND 31
D_PB 30
GND 29
D_PR 28
GND 27
DPLUG_L 26
LINE1 25
LINE2 24
LINE3 23
+5V 22
21
48V 20
XLR2_MIC_H 19
XLR2_+48V_H 18
XLR2_-50DB_H 17
GND 16
XLR2 15
GND 14
GND 13
XLR1 12
GND 11
XLR1_MIC_H 10
XLR1_+48V_H 9
XLR1_-50DB_H 8
10V 7
10V 6
5
IROUT 4
3
DGND 2
THERMISTOR1 1
R100 0/J3
R137 0/J3
BL5V
10V
AGND
2:L3 XLR1
2:H7 XLR1_MIC_H
2:H6 X_R1_+48V_H
2:L3 X_R1_-50DB_H
TH100 D4CC11030012
C113 PAT/1608
C114 PAT/1608
C115 PAT/1608
R130 3/J6
R131 3/J6
R132 3/J6
C116 PAT/1608
C117 PAT/1608
C118 PAT/1608
R127 68/RE7
R128 68/RE7
R129 68/RE7
C110 PAT/1608
C111 PAT/1608
C112 PAT/1608
D111 D4ED1270A008
D112 D4ED1270A008
D113 D4ED1270A008
P102
K1FY114A0001
Y 1
Y_GND 2
PB 3
PB GND 4
PR 5
PR GND 6
7
8 LINE1
9 LINE2
10 TP101
11 LINE3
12 PLUG_GND
13 TP102
14 PLUG_DET
TP100
R134 PAT/J3
R142 0/J3
R136 PAT/J3
CS5014-0714F5Z
BL5V
R126 PAT/J3
P101
K1MN12BA0059
48V 10V
1 +10V
2 +10V
3 +48V
4
5 GND
6 XLR2
7 GND
8 XLR2_MIC_H
9 XLR2_+48V_H
10 XLR2_-50DB_H
11 GND
12 GND
R106 0/J3
AGND
to EXT_MIC_CH2
R144 PAT/J3
Q102 2SD1824O0L
R143 1000/J3
C119 80V3R3
C120 63V33
48V
AGND
BL5V
Q100 2SD1819A0L
Q101 2SD1030O0L
C100 0.22
C101 0.22
R103 1800/J3
R104 4700/J3
R105 330K/J3
R107 10M/J3
D100 MA132WA-TX
R108 2R2M/J6
C102 0.1
IR_LED
D101 B3GA00000053
R121 0/J3
R139 0/J3
R138 0/J3
J100
AGND
FG1
R124 0/J3
R141 0/J3
R140 0/J3
U101
AGND
R117 0/J3
U102
FG2
A
B
C
D
E
F
G
H
I
J
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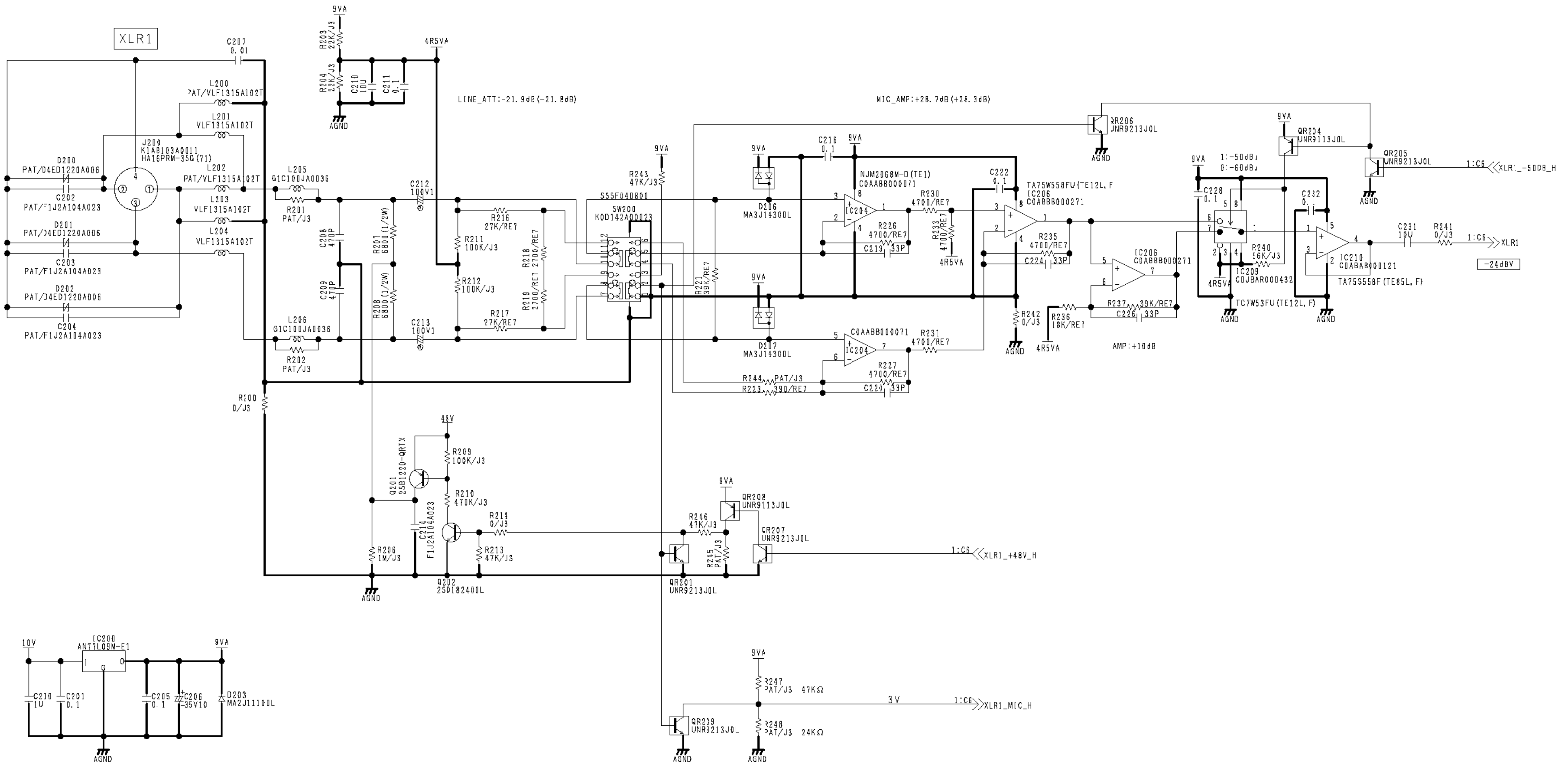
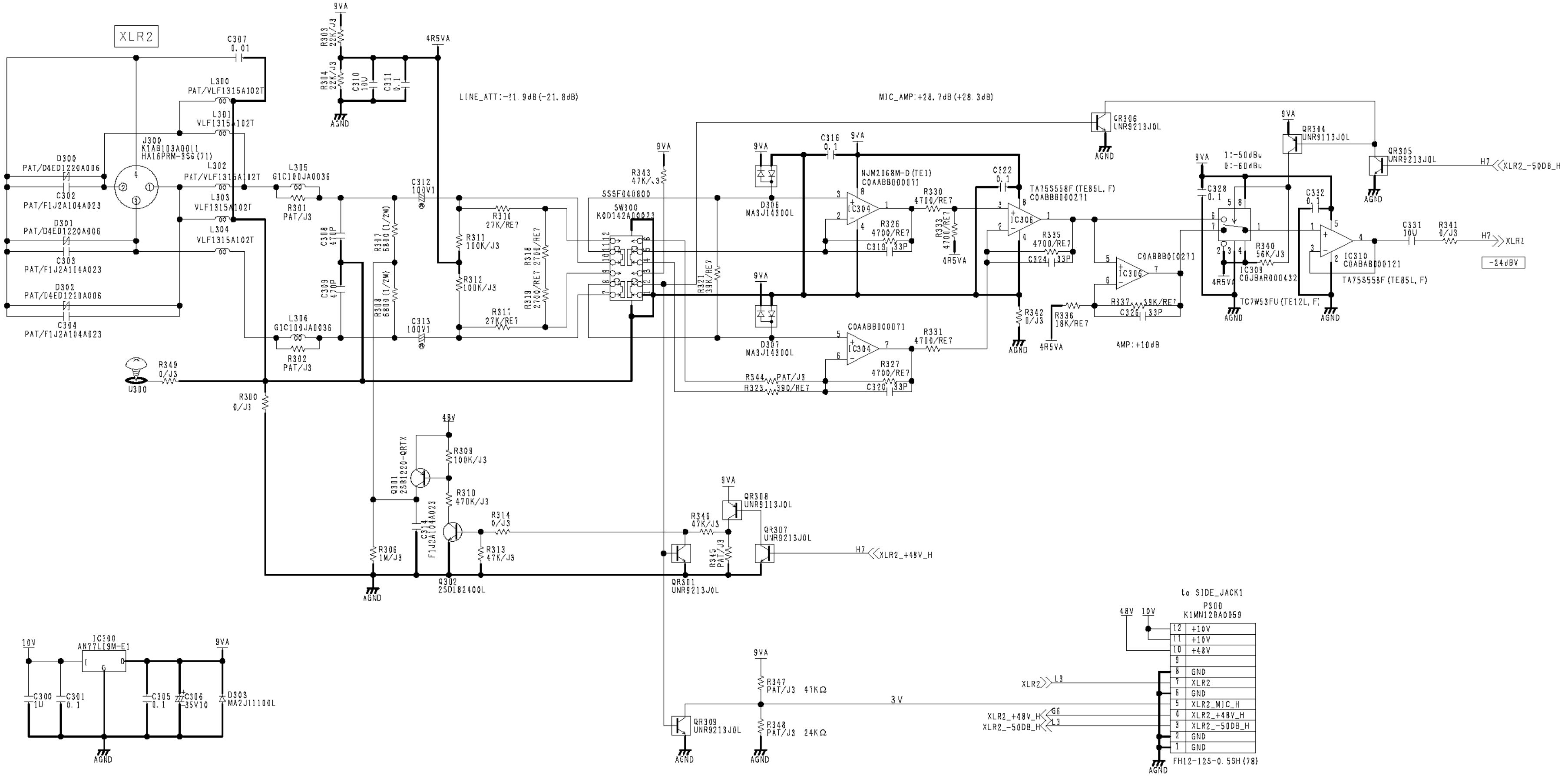
Ref No. 100-199

COMPONENT NAME	SIDE JACK1 (CONNECTOR)	01/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP04902A		KR4A0164(1/2)
		SCM055


XLR1
C207 0.01
L200 PAT/VLF1315A102T
L201 VLF1315A102T
J200 K1AB103A0011 HA16PRM-3SG(71)
D200 PAT/D4ED1220A006
C202 PAT/F1J2A104A023
D201 PAT/D4ED1220A006
C203 PAT/F1J2A104A023
D202 PAT/D4ED1220A006
C204 PAT/F1J2A104A023
L202 PAT/VLF1315A102T
L203 VLF1315A102T
L204 VLF1315A102T
L205 G1C100JA0036
R201 PAT/J3
L206 G1C100JA0036
R202 PAT/J3
R200 0/J3
9VA
R203 22K/J3
R204 22K/J3
C210 10U
C211 0.1
AGND
4R5VA
LINE_ATT:-21.9dB(-21.8dB)
C208 470P
C209 470P
R207 6800(1/2W)
R208 6800(1/2W)
C212 100V1
C213 100V1
R211 100K/J3
R212 100K/J3
R216 27K/RE7
R217 27K/RE7
R218 2700/RE7
R219 2700/RE7
R243 47K/J3
SSSF040800
SW200 K0D142A00023
R221 39K/RE7
MIC_AMF:+28.7dB(+28.3dB)
D206 MA3J14300L
D207 MA3J14300L
C216 0.1
NJM2068M-D(TE1) C0AABB000071
IC204
R226 4700/RE7
C219 33P
R230 4700/RE7
R233 4700/RE7
C0AABB000071
R231 4700/RE7
R227 4700/RE7
C220 33P
R244 PAT/J3
R223 390/RE7
C222 0.1
TA75W558FU(TE12L,F
IC206 C0ABBB000271
R235 4700/RE7
C224 33P
R242 0/J3
R236 18K/RE7
R237 39K/RE7
C226 33P
AMP:+10dB
QR206 UNR9213J0L
QR204 UNR9113J0L
QR205 UNR9213J0L
1:-50dBu
0:-60dBu
C228 0.1
IC209 C0JBAR000432
TC7W53FU(TE12L,F)
R240 56K/J3
C232 0.1
IC210 C0ABAB000121
TA75S558F(TE85L,F)
C231 10U
R241 0/J3
1:C6
XLR1_-50DB_H
XLR1
-24dBV
48V
R209 100K/J3
Q201 2SB1220-QRTX
R210 470K/J3
C214 F1J2A104A023
R214 0/J3
R213 47K/J3
R206 1M/J3
Q202 2SD182400L
R246 47K/J3
QR208 UNR9113J0L
R245 PAT/J3
QR207 UNR9213J0L
QR201 UNR9213J0L
XLR1_+48V_H
IC200 AN77L09M-E1
10V
C200 1U
C201 0.1
C205 0.1
C206 35V10
D203 MA2J11100L
R247 PAT/J3 47KΩ
R248 PAT/J3 24KΩ
QR209 UNR9213J0L
3V
XLR1_MIC_H

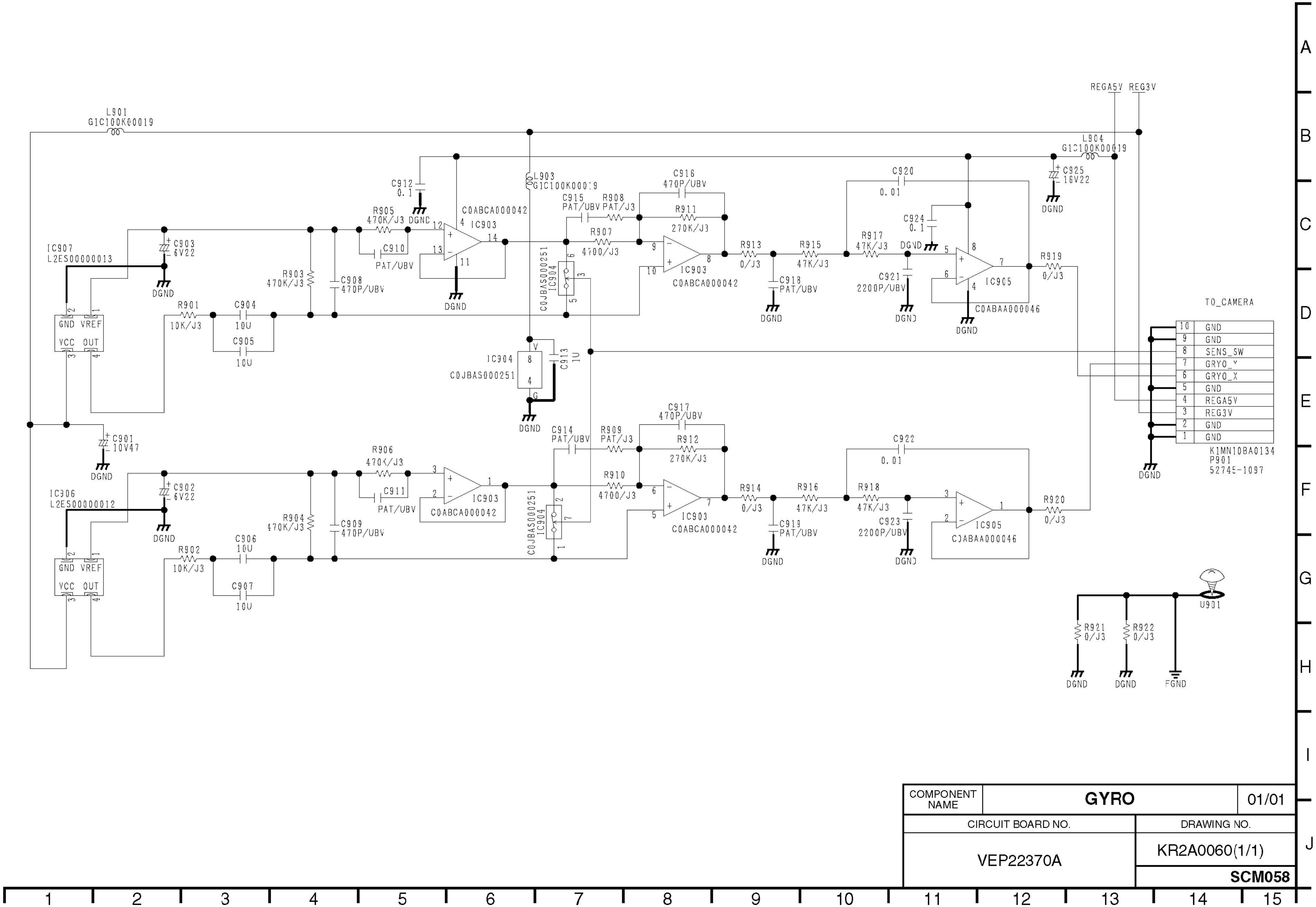
Ref No. 200-299

COMPONENT NAME	SIDE JACK1 (XLR1)	02/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP04902A		KR4A0164(2/2)
		SCM056


XLR2
J300
K1AB103A0011
HA16PRM-3SG(71)
C307 0.01
L300 PAT/VLF1315A102T
L301 VLF1315A102T
L302 PAT/VLF1315A102T
L303 VLF1315A102T
L304 VLF1315A102T
D300 PAT/D4ED1220A006
C302 PAT/F1J2A104A023
D301 PAT/D4ED1220A006
C303 PAT/F1J2A104A023
D302 PAT/D4ED1220A006
C304 PAT/F1J2A104A023
L305 G1C100JA0036
L306 G1C100JA0036
R301 PAT/J3
R302 PAT/J3
R349 0/J3
U300
R300 0/J1
9VA
R303 22K/J3
R304 22K/J3
C310 10U
C311 0.1
AGND
4R5VA
LINE_ATT:-21.9dB(-21.8dB)
C308 470P
C309 470P
R307 6800(1/2W)
R308 6800(1/2W)
C312 100V1
C313 100V1
R311 100K/J3
R312 100K/J3
R316 27K/RE7
R317 27K/RE7
R318 2700/RE7
R319 2700/RE7
SS5F040800
SW300
K0D142A00023
R343 47K/J3
R321 39K/RE7
MIC_AMP:+28.7dB(+28.3dB)
D306 MA3J14300L
D307 MA3J14300L
C316 0.1
NJM2068M-D(TE1)
C0AAB000071
IC304
R326 4700/RE7
C319 33P
R330 4700/RE7
R333 4700/RE7
R331 4700/RE7
R327 4700/RE7
C320 33P
R344 PAT/J3
R323 390/RE7
C322 0.1
TA75S558F(TE85L,F)
C0ABBB000271
IC306
R335 4700/RE7
C324 33P
R342 0/J3
R336 18K/RE7
R337 39K/RE7
C326 33P
AMP:+10dB
QR306 UNR9213J0L
QR304 UNR9113J0L
QR305 UNR9213J0L
C328 0.1
1:-50dBu
0:-60dBu
IC309 C0JBAR000432
R340 56K/J3
TC7W53FU(TE12L,F)
C332 0.1
IC310 C0ABAB000121
TA75S558F(TE85L,F)
C331 10U
R341 0/J3
H7 XLR2
-24dBV
H7 XLR2_-50DB_H
48V
Q301 2SB1220-QRTX
R309 100K/J3
R310 470K/J3
C314 F1J2A104A023
R314 0/J3
R313 47K/J3
R306 1M/J3
Q302 2SD1824000L
R346 47K/J3
R345 PAT/J3
QR308 UNR9113J0L
QR307 UNR9213J0L
QR301 UNR9213J0L
H7 XLR2_+48V_H
10V
IC300 AN77L09M-E1
I G O
C300 1U
C301 0.1
C305 0.1
C306 35V10
D303 MA2J1100L
R347 PAT/J3 47KΩ
R348 PAT/J3 24KΩ
QR309 UNR9213J0L
3V
to SIDE_JACK1
P300
K1MN12BA0059
12 +10V
11 +10V
10 +48V
9
8 GND
7 XLR2
6 GND
5 XLR2_MIC_H
4 XLR2_+48V_H
3 XLR2_-50DB_H
2 GND
1 GND
FH12-12S-0.5SH(78)
XLR2 L3
XLR2_+48V_H G6
XLR2_-50DB_H L3

Ref No. 300-399

COMPONENT NAME	EXT_MIC2	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04903A	KR4A0165(1/1)	
	SCM057	


A
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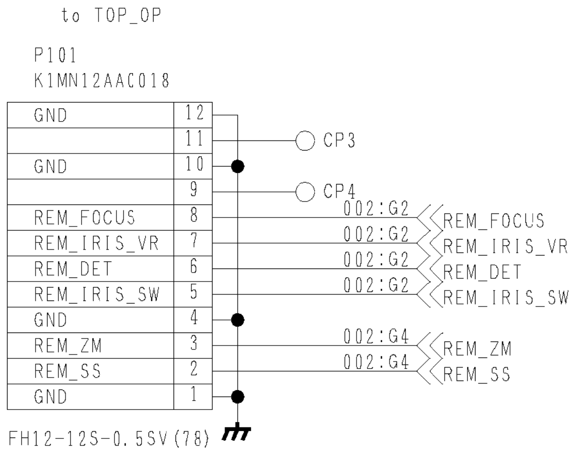
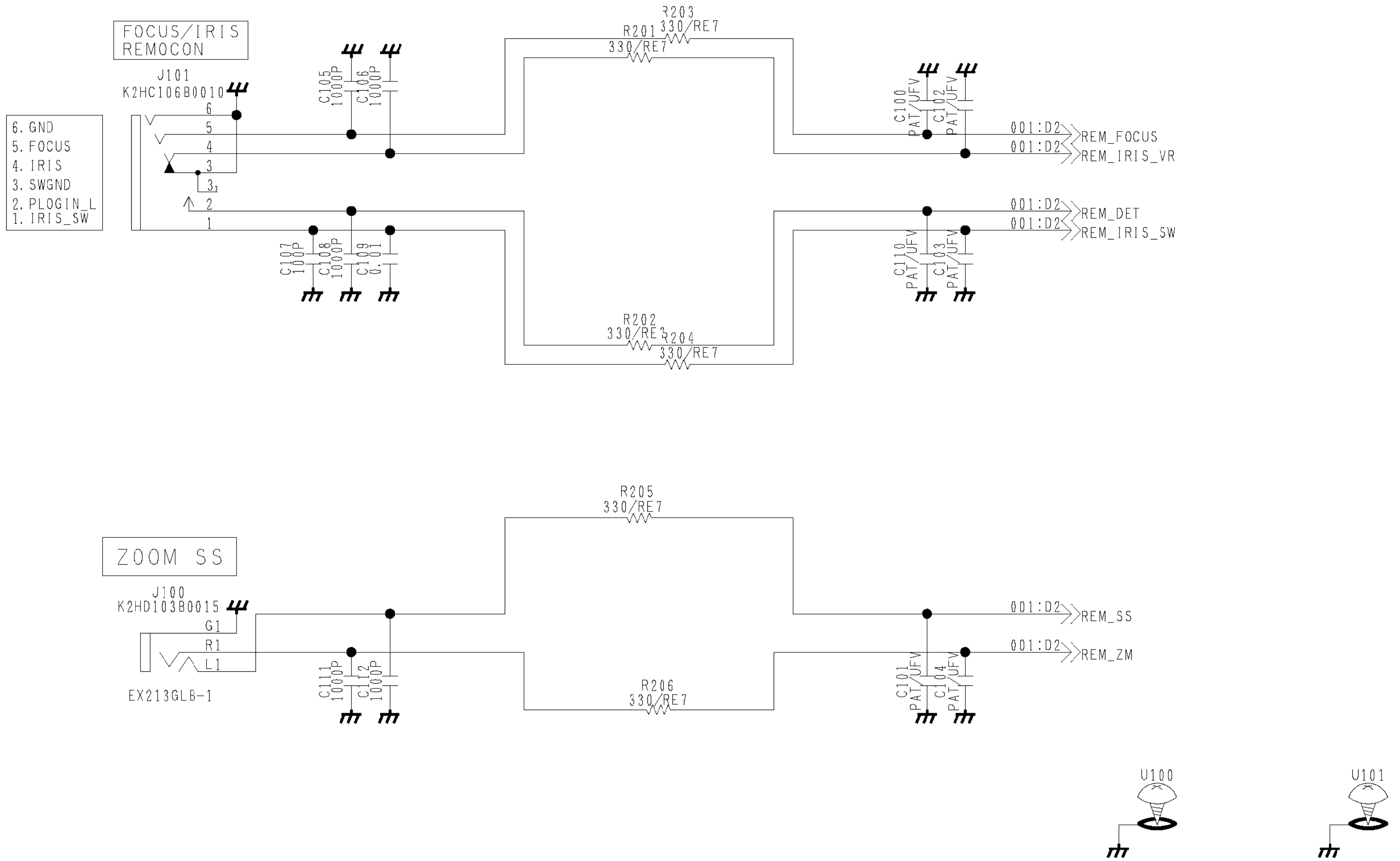
15
REGA5V
REG3V
L901
G1C100K00019
L904
G1C100K00019
C925
16V22
L903
G1C100K00019
C912
0.1
DGND
R905
470K/J3
C910
PAT/UBV
C0ABCA000042
IC903
IC907
L2ES00000013
C903
6V22
GND
VREF
VCC
OUT
R903
470K/J3
C908
470P/UBV
R901
10K/J3
C904
10U
C905
10U
C915
PAT/UBV
R908
PAT/J3
C916
470P/UBV
R911
270K/J3
R907
4700/J3
C0JBAS000251
IC904
R913
0/J3
R915
47K/J3
C918
PAT/UBV
R917
47K/J3
C924
0.1
C920
0.01
C921
2200P/UBV
IC905
C0ABAA000046
R919
0/J3
TO_CAMERA
10 GND
9 GND
8 SENS_SW
7 GRYO_Y
6 GRYO_X
5 GND
4 REGA5V
3 REG3V
2 GND
1 GND
K1MN10BA0134
P901
52745-1097
C913
1U
C901
10V47
IC306
L2ES00000012
C902
6V22
R902
10K/J3
C906
10U
C907
10U
R904
470K/J3
C909
470P/UBV
R906
470K/J3
C911
PAT/UBV
C914
PAT/UBV
R909
PAT/J3
C917
470P/UBV
R912
270K/J3
R910
4700/J3
R914
0/J3
C919
PAT/UBV
R916
47K/J3
R918
47K/J3
C922
0.01
C923
2200P/UBV
C1ABAA000046
R920
0/J3
R921
0/J3
R922
0/J3
U901
FGND

COMPONENT NAME	GYRO	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP22370A		KR2A0060(1/1)
		SCM058


to TOP_OP
P101
K1MN12AAC018
GND 12
11
GND 10
9
REM_FOCUS 8
REM_IRIS_VR 7
REM_DET 6
REM_IRIS_SW 5
GND 4
REM_ZM 3
REM_SS 2
GND 1
FH12-12S-0.5SV(78)
CP3
CP4
002:G2 REM_FOCUS
002:G2 REM_IRIS_VR
002:G2 REM_DET
002:G2 REM_IRIS_SW
002:G4 REM_ZM
002:G4 REM_SS

Ref No. 100Series

COMPONENT NAME	SIDE JACK2	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04904A	KR4A0166(1/2)	
	SCM059	


FOCUS/IRIS REMOCON
J101
K2HC106B0010
6. GND
5. FOCUS
4. IRIS
3. SWGND
2. PLOGIN_L
1. IRIS_SW
C105 1000P
C106 1000P
C107 100P
C108 1000P
C109 0.01
R201 330/RE7
R203 330/RE7
R202 330/RE7
R204 330/RE7
C100 PAT/UFV
C102 PAT/UFV
C110 PAT/UFV
C103 PAT/UFV
001:D2 REM_FOCUS
001:D2 REM_IRIS_VR
001:D2 REM_DET
001:D2 REM_IRIS_SW
ZOOM SS
J100
K2HD103B0015
G1
R1
L1
EX213GLB-1
C111 1000P
C112 1000P
R205 330/RE7
R206 330/RE7
C101 PAT/UFV
C104 PAT/UFV
001:D2 REM_SS
001:D2 REM_ZM
U100
U101

Ref No. 200Series

COMPONENT NAME	**SIDE JACK2**	02/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04904A	KR4A0166(2/2)	
	SCM060	

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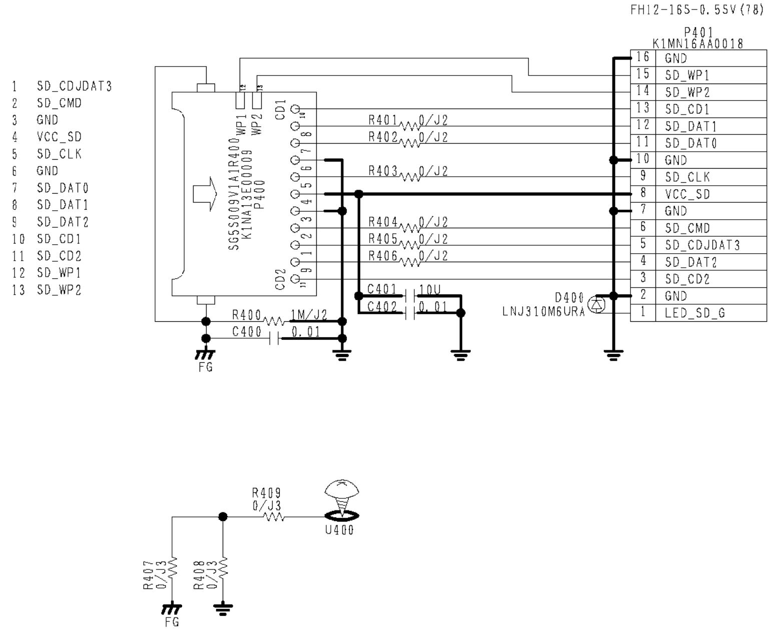
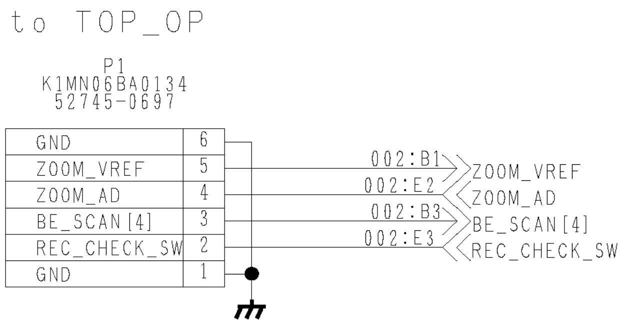
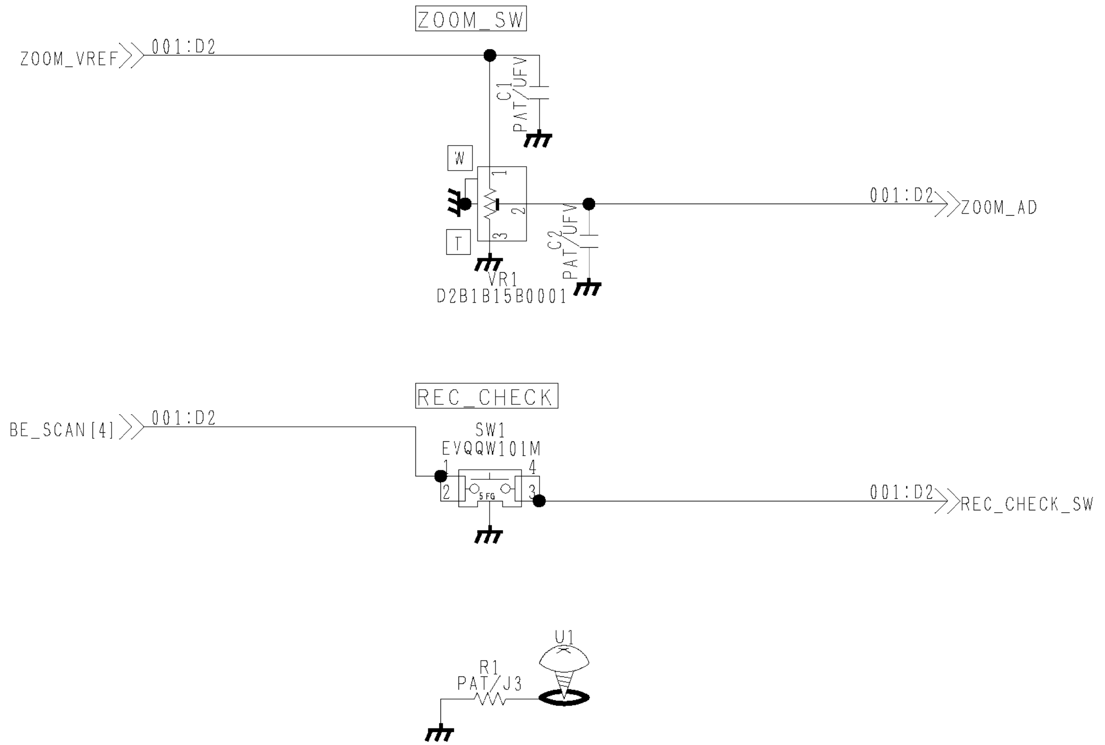

1 SD_CDJDAT3
2 SD_CMD
3 GND
4 VCC_SD
5 SD_CLK
6 GND
7 SD_DAT0
8 SD_DAT1
9 SD_DAT2
10 SD_CD1
11 SD_CD2
12 SD_WP1
13 SD_WP2
SG5S009V1A1R400
K1NA13E00009
P400
WP1
WP2
CD1
CD2
R401 0/J2
R402 0/J2
R403 0/J2
R404 0/J2
R405 0/J2
R406 0/J2
C401 10U
C402 0.01
R400 1M/J2
C400 0.01
FG
FH12-165-0.55V(78)
P401
K1MN16AA0018
16 GND
15 SD_WP1
14 SD_WP2
13 SD_CD1
12 SD_DAT1
11 SD_DAT0
10 GND
9 SD_CLK
8 VCC_SD
7 GND
6 SD_CMD
5 SD_CDJDAT3
4 SD_DAT2
3 SD_CD2
2 GND
1 LED_SD_G
D400
LNJ310M6URA
R409 0/J3
U400
R407 0/J3
R408 0/J3
FG

Ref No. 400-

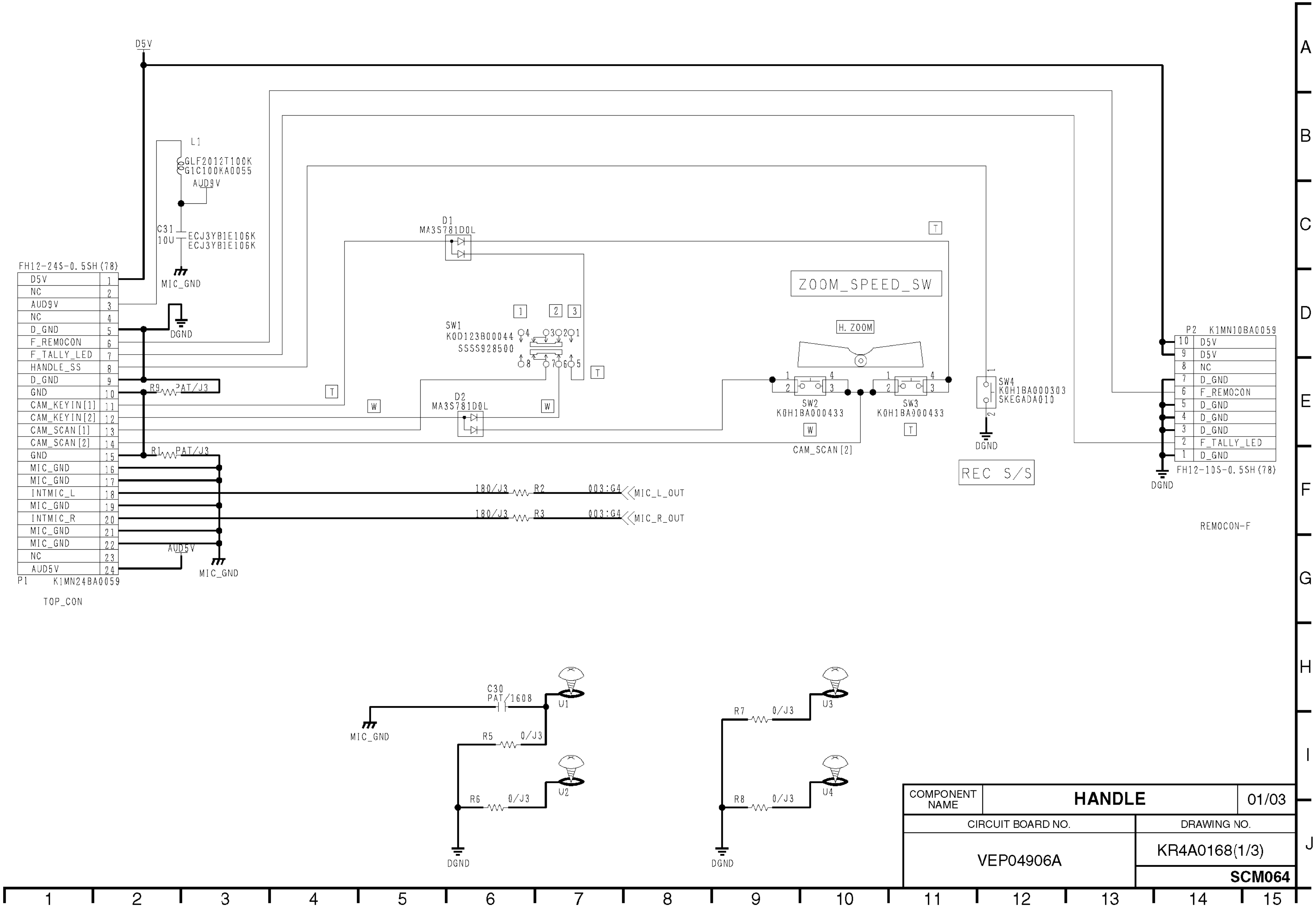
COMPONENT NAME	**SD_CARD**	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP001P2A		KR0A0430(1/1) **SCM061**


to TOP_OP
P1
K1MN06BA0134
52745-0697
GND 6
ZOOM_VREF 5
ZOOM_AD 4
BE_SCAN[4] 3
REC_CHECK_SW 2
GND 1
002:B1
002:E2
002:B3
002:E3
ZOOM_VREF
ZOOM_AD
BE_SCAN[4]
REC_CHECK_SW

COMPONENT NAME	ZOOM_SW	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001M5A	KR0A0389(1/2)	
	SCM062	


ZOOM_SW
ZOOM_VREF
001:D2
C1
PAT/UFV
W
T
1
2
3
VR1
D2B1B15B0001
C2
PAT/UFV
001:D2
ZOOM_AD
REC_CHECK
BE_SCAN[4]
001:D2
SW1
EVQQW101M
1
4
2
3
SFG
001:D2
REC_CHECK_SW
U1
R1
PAT/J3

COMPONENT NAME	ZOOM_SW	02/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001M5A	KR0A0389(2/2)	
	SCM063	


D5V
L1
GLF2012T100K
G1C100KA0055
AUD9V
C31
10U
ECJ3YB1E106K
ECJ3YB1E106K
MIC_GND
FH12-24S-0.5SH(78)
1 D5V
2 NC
3 AUD9V
4 NC
5 D_GND
6 F_REMOCON
7 F_TALLY_LED
8 HANDLE_SS
9 D_GND
10 GND
11 CAM_KEYIN[1]
12 CAM_KEYIN[2]
13 CAM_SCAN[1]
14 CAM_SCAN[2]
15 GND
16 MIC_GND
17 MIC_GND
18 INTMIC_L
19 MIC_GND
20 INTMIC_R
21 MIC_GND
22 MIC_GND
23 NC
24 AUD5V
P1 K1MN24BA0059
TOP_CON
DGND
R9 PAT/J3
R1 PAT/J3
AUD5V
MIC_GND
D1
MA3S781D0L
D2
MA3S781D0L
SW1
K0D123B00044
SSSS928500
1
2
3
T
W
180/J3 R2
180/J3 R3
003:G4
MIC_L_OUT
MIC_R_OUT
ZOOM_SPEED_SW
H. ZOOM
SW2
K0H1BA000433
SW3
K0H1BA000433
CAM_SCAN[2]
SW4
K0H1BA000303
SKEGADA010
DGND
REC S/S
P2 K1MN10BA0059
10 D5V
9 D5V
8 NC
7 D_GND
6 F_REMOCON
5 D_GND
4 D_GND
3 D_GND
2 F_TALLY_LED
1 D_GND
FH12-10S-0.5SH(78)
DGND
REMOCON-F
C30
PAT/1608
U1
U2
U3
U4
R5 0/J3
R6 0/J3
R7 0/J3
R8 0/J3
MIC_GND
DGND
A
B
C
D
E
F
G
H
I
J
1
2
3
4
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6
7
8
9
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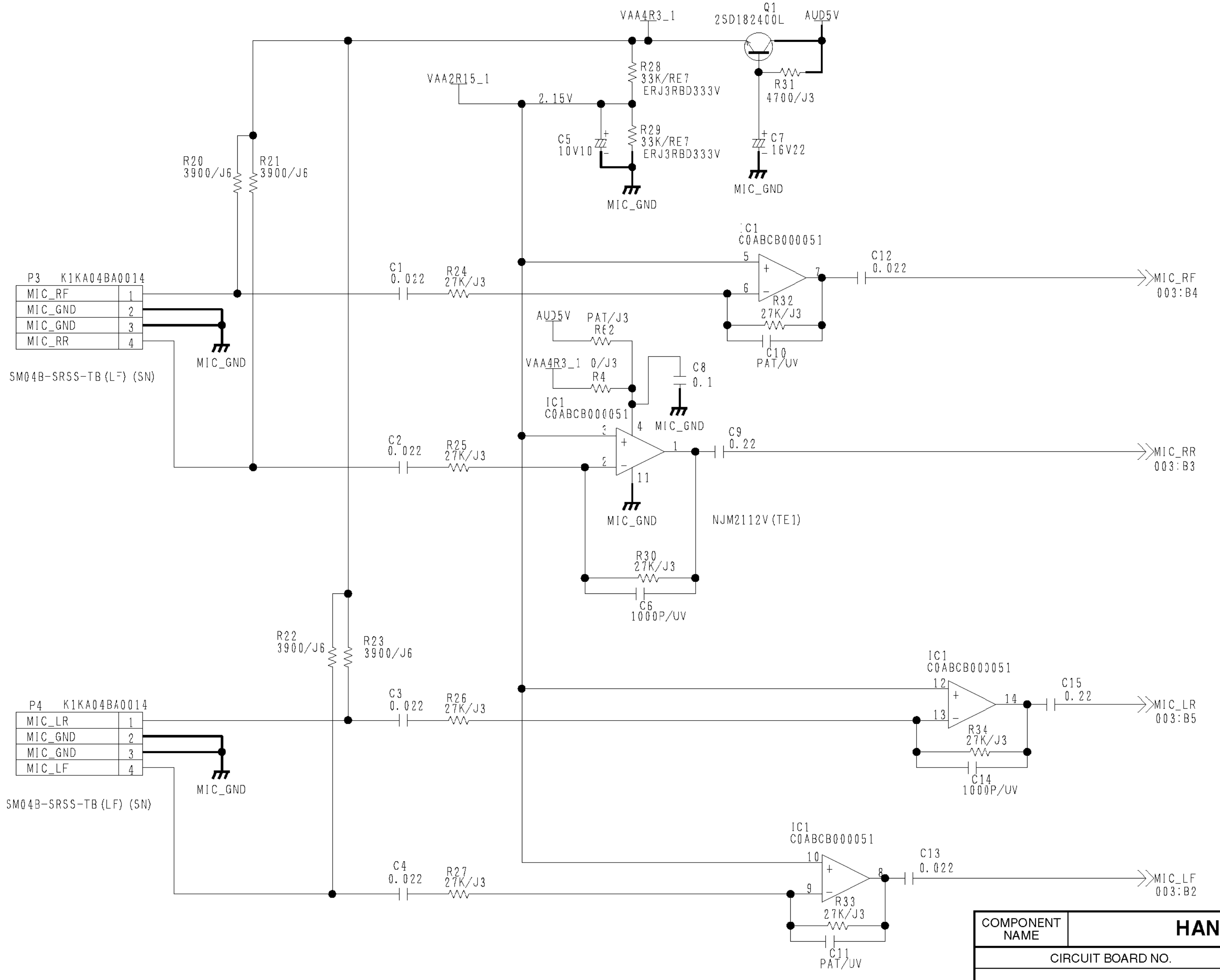
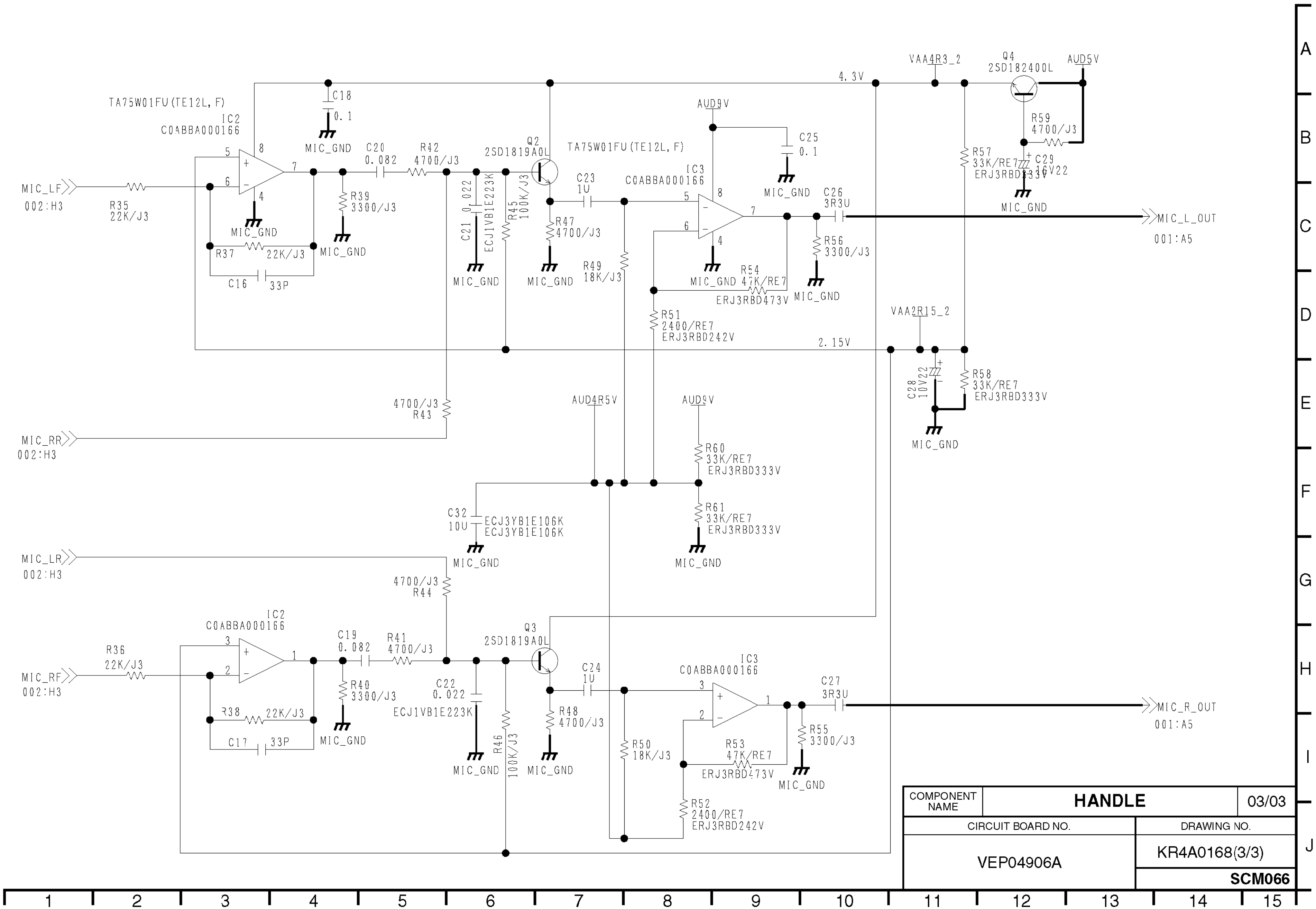
COMPONENT NAME	HANDLE		01/03
CIRCUIT BOARD NO.		DRAWING NO.	
VEP04906A		KR4A0168(1/3)	
		SCM064	


VAA4R3_1
Q1
2SD182400L
AUD5V
R28
33K/RE7
ERJ3RBD333V
R29
33K/RE7
ERJ3RBD333V
R31
4700/J3
C7
16V22
VAA2R15_1
2.15V
C5
10V10
MIC_GND
R20
3900/J6
R21
3900/J6
IC1
C0ABCB000051
C12
0.022
MIC_RF
003:B4
P3 K1KA04BA0014
MIC_RF 1
MIC_GND 2
MIC_GND 3
MIC_RR 4
SM04B-SRSS-TB(LF) (SN)
C1
0.022
R24
27K/J3
R32
27K/J3
C10
PAT/UV
AUD5V
PAT/J3
RE2
VAA4R3_1
0/J3
R4
C8
0.1
C9
0.22
MIC_RR
003:B3
C2
0.022
R25
27K/J3
NJM2112V(TE1)
R30
27K/J3
C6
1000P/UV
R22
3900/J6
R23
3900/J6
C15
0.22
MIC_LR
003:B5
P4 K1KA04BA0014
MIC_LR 1
MIC_GND 2
MIC_GND 3
MIC_LF 4
SM04B-SRSS-TB(LF) (SN)
C3
0.022
R26
27K/J3
R34
27K/J3
C14
1000P/UV
C13
0.022
MIC_LF
003:B2
C4
0.022
R27
27K/J3
R33
27K/J3
C11
PAT/UV

COMPONENT NAME	HANDLE	02/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04906A	KR4A0168(2/3) SCM065	


A
B
C
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G
H
I
J
1
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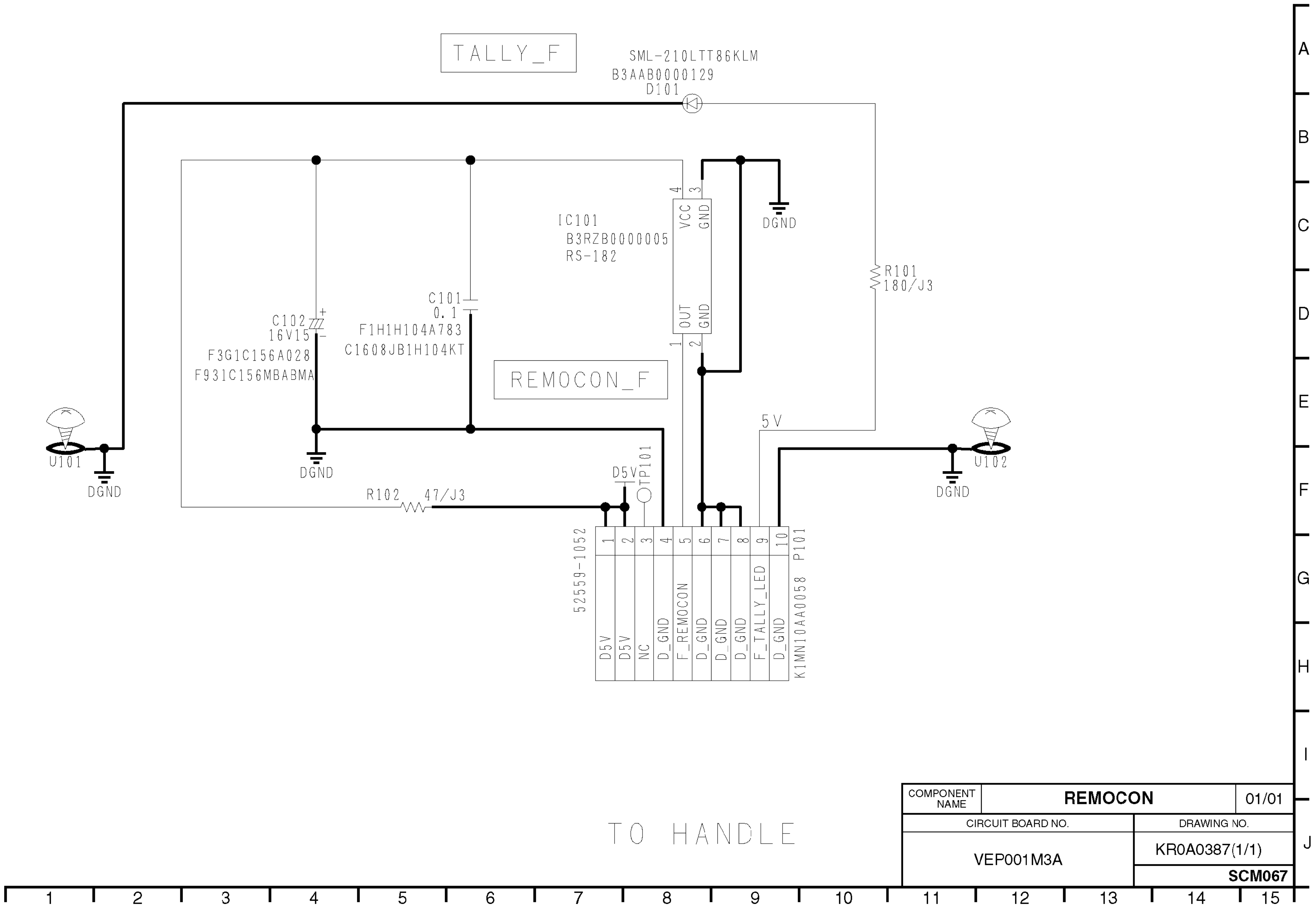
10
11
12
13
14
15
MIC_LF
002:H3
R35
22K/J3
TA75W01FU(TE12L,F)
IC2
C0ABBA000166
5
6
8
7
4
MIC_GND
R37
22K/J3
C16
33P
C18
0.1
MIC_GND
C20
0.082
R42
4700/J3
R39
3300/J3
MIC_GND
C21
0.022
ECJ1VB1E223K
MIC_GND
R45
100K/J3
Q2
2SD1819A0L
R47
4700/J3
MIC_GND
TA75W01FU(TE12L,F)
C23
1U
R49
18K/J3
IC3
C0ABBA000166
AUD9V
C25
0.1
MIC_GND
R54
47K/RE7
ERJ3RBD473V
MIC_GND
R51
2400/RE7
ERJ3RBD242V
C26
3R3U
R56
3300/J3
MIC_GND
MIC_L_OUT
001:A5
4.3V
2.15V
VAA4R3_2
Q4
2SD182400L
AUD5V
R59
4700/J3
C29
16V22
R57
33K/RE7
ERJ3RBD333V
MIC_GND
VAA2R15_2
C28
10V22
R58
33K/RE7
ERJ3RBD333V
MIC_GND
MIC_RR
002:H3
4700/J3
R43
AUD4R5V
AUD9V
R60
33K/RE7
ERJ3RBD333V
R61
33K/RE7
ERJ3RBD333V
MIC_GND
C32
10U
ECJ3YB1E106K
ECJ3YB1E106K
MIC_GND
MIC_LR
002:H3
4700/J3
R44
MIC_RF
002:H3
R36
22K/J3
IC2
C0ABBA000166
3
2
1
R38
22K/J3
C17
33P
C19
0.082
R41
4700/J3
R40
3300/J3
MIC_GND
C22
0.022
ECJ1VB1E223K
MIC_GND
R46
100K/J3
Q3
2SD1819A0L
R48
4700/J3
MIC_GND
C24
1U
R50
18K/J3
IC3
C0ABBA000166
R53
47K/RE7
ERJ3RBD473V
R52
2400/RE7
ERJ3RBD242V
C27
3R3U
R55
3300/J3
MIC_GND
MIC_R_OUT
001:A5
COMPONENT NAME
HANDLE
03/03
CIRCUIT BOARD NO.
VEP04906A
DRAWING NO.
KR4A0168(3/3)
SCM066


TALLY_F
SML-210LTT86KLM
B3AAB0000129
D101
IC101
B3RZB0000005
RS-182
VCC
GND
OUT
GND
4
3
1
2
DGND
R101
180/J3
C101
0.1
F1H1H104A783
C1608JB1H104KT
C102
16V15
+
-
F3G1C156A028
F931C156MBABMA
REMOCON_F
5V
U101
DGND
DGND
U102
DGND
R102
47/J3
D5V
TP101
52559-1052
1 D5V
2 D5V
3 NC
4 D_GND
5 F_REMOCON
6 D_GND
7 D_GND
8 D_GND
9 F_TALLY_LED
10 D_GND
P101
K1MN10AA0058
TO HANDLE
A
B
C
D
E
F
G
H
I
J
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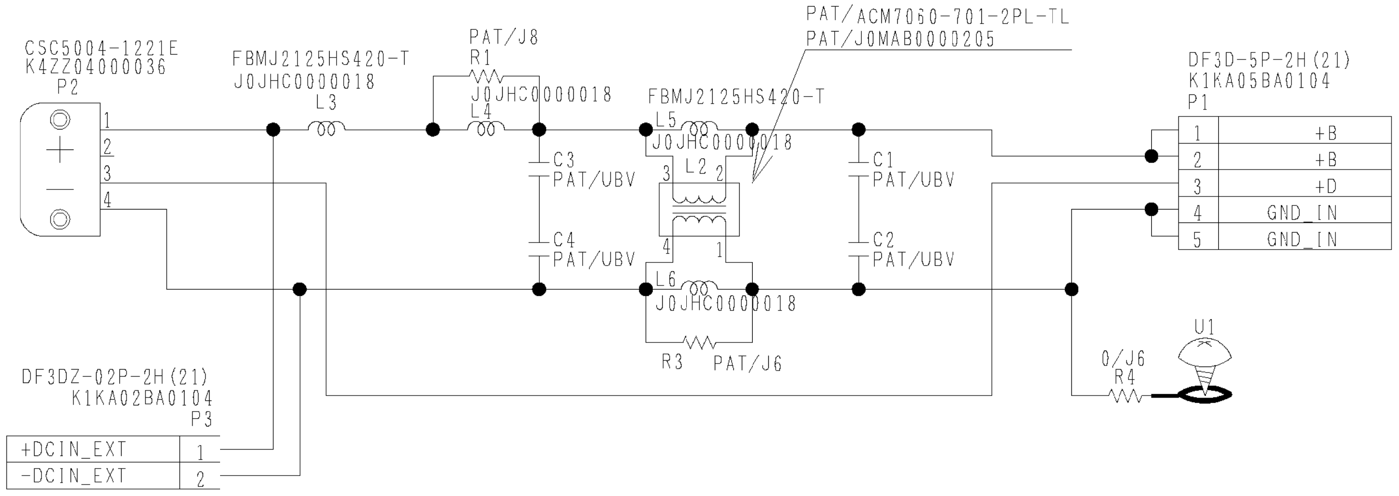
COMPONENT NAME | REMOCON | 01/01

CIRCUIT BOARD NO. VEP001M3A

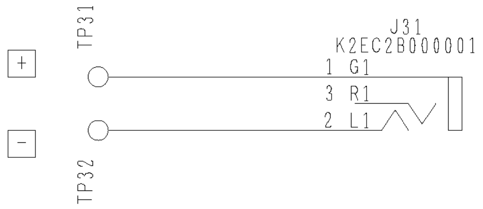
DRAWING NO. KR0A0387(1/1)

SCM067


CSC5004-1221E
K4ZZ04000036
P2
1
2
3
4
FBMJ2125HS420-T
J0JHC0000018
L3
PAT/J8
R1
J0JHC0000018
L4
C3
PAT/UBV
C4
PAT/UBV
FBMJ2125HS420-T
L5
J0JHC0000018
L2
3
2
4
1
L6
J0JHC0000018
R3
PAT/J6
PAT/ACM7060-701-2PL-TL
PAT/J0MAB0000205
C1
PAT/UBV
C2
PAT/UBV
DF3D-5P-2H(21)
K1KA05BA0104
P1
1 +B
2 +B
3 +D
4 GND_IN
5 GND_IN
U1
0/J6
R4
DF3DZ-02P-2H(21)
K1KA02BA0104
P3
+DCIN_EXT 1
-DCIN_EXT 2

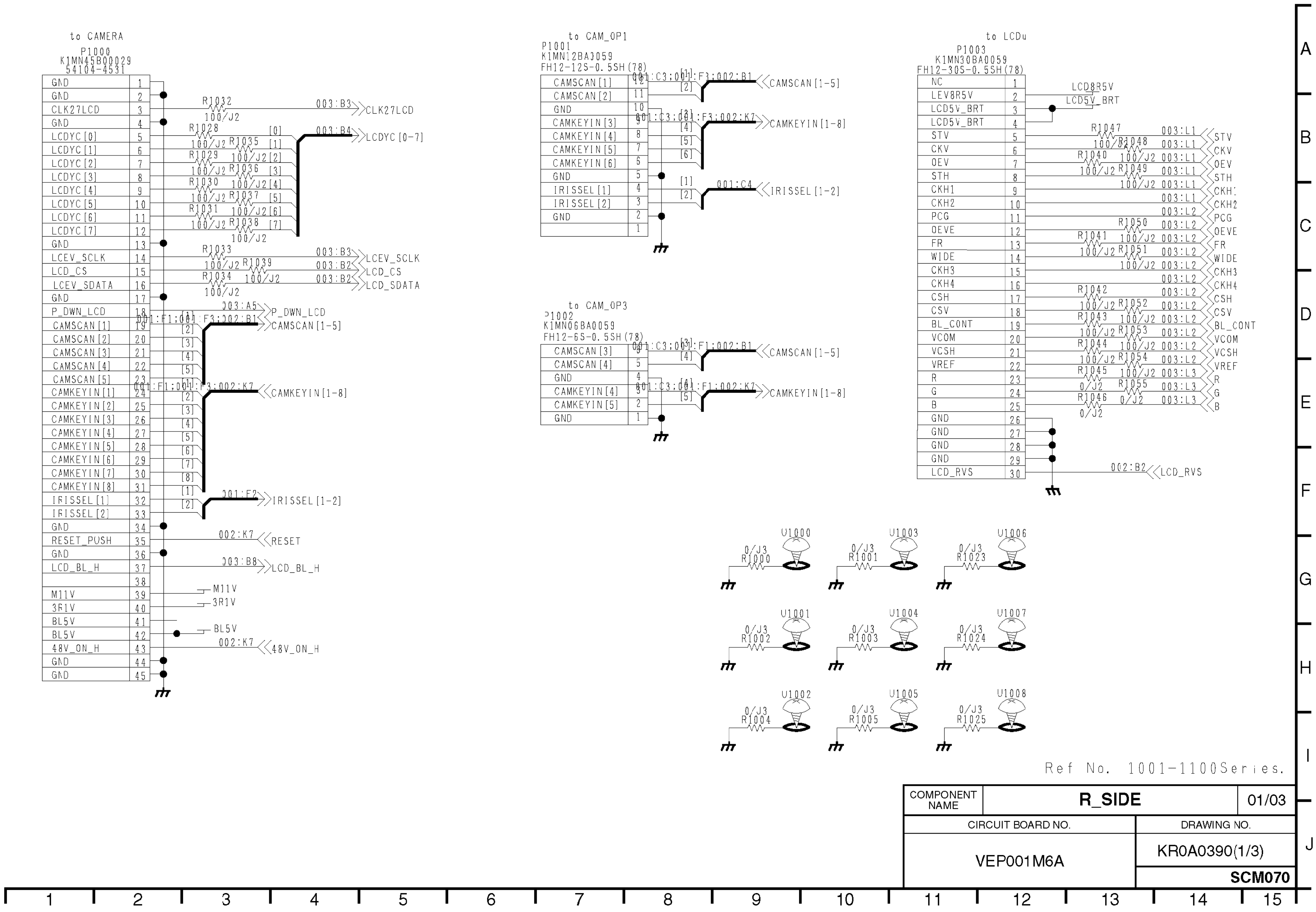
PAT=PATTERN ONLY
Ref No. 1-49 Series.

COMPONENT NAME	BATTERY	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP01979A	KR1A0158(1/1)	
	SCM068	


TP31
+
TP32
−
J31
K2EC2B000001
1 G1
3 R1
2 L1

Ref No. 31-49

COMPONENT NAME	DC_IN	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP01971A	KR1A0138(1/1) **SCM069**	



to CAMERA
P1000
K1MN45B00029
54104-4531
GND 1
GND 2
CLK27LCD 3
GND 4
LCDYC[0] 5
LCDYC[1] 6
LCDYC[2] 7
LCDYC[3] 8
LCDYC[4] 9
LCDYC[5] 10
LCDYC[6] 11
LCDYC[7] 12
GND 13
LCEV_SCLK 14
LCD_CS 15
LCEV_SDATA 16
GND 17
P_DWN_LCD 18
CAMSCAN[1] 19
CAMSCAN[2] 20
CAMSCAN[3] 21
CAMSCAN[4] 22
CAMSCAN[5] 23
CAMKEYIN[1] 24
CAMKEYIN[2] 25
CAMKEYIN[3] 26
CAMKEYIN[4] 27
CAMKEYIN[5] 28
CAMKEYIN[6] 29
CAMKEYIN[7] 30
CAMKEYIN[8] 31
IRISSEL[1] 32
IRISSEL[2] 33
GND 34
RESET_PUSH 35
GND 36
LCD_BL_H 37
38
M11V 39
3R1V 40
BL5V 41
BL5V 42
48V_ON_H 43
GND 44
GND 45
R1032 100/J2
R1028 100/J2
R1029 100/J2
R1030 100/J2
R1031 100/J2
R1035 100/J2
R1036 100/J2
R1037 100/J2
R1038 100/J2
R1033 100/J2
R1039 100/J2
R1034 100/J2
003:B3 CLK27LCD
003:B4 LCDYC[0-7]
003:B3 LCEV_SCLK
003:B2 LCD_CS
003:B2 LCD_SDATA
003:A5 P_DWN_LCD
001:F1;001:F3:002:B1 CAMSCAN[1-5]
001:F1;001:F3:002:K7 CAMKEYIN[1-8]
001:F2 IRISSEL[1-2]
002:K7 RESET
003:B8 LCD_BL_H
M11V
3R1V
BL5V
002:K7 48V_ON_H
to CAM_OP1
P1001
K1MN12BA0059
FH12-12S-0.5SH(78)
CAMSCAN[1] 12
CAMSCAN[2] 11
GND 10
CAMKEYIN[3] 9
CAMKEYIN[4] 8
CAMKEYIN[5] 7
CAMKEYIN[6] 6
GND 5
IRISSEL[1] 4
IRISSEL[2] 3
GND 2
1
001:C3;001:F3:002:B1 CAMSCAN[1-5]
001:C3;001:F3:002:K7 CAMKEYIN[1-8]
001:C4 IRISSEL[1-2]
to CAM_OP3
P1002
K1MN06BA0059
FH12-6S-0.5SH(78)
CAMSCAN[3] 6
CAMSCAN[4] 5
GND 4
CAMKEYIN[4] 3
CAMKEYIN[5] 2
GND 1
001:C3;001:F1:002:B1 CAMSCAN[1-5]
001:C3;001:F1:002:K7 CAMKEYIN[1-8]
to LCDu
P1003
K1MN30BA0059
FH12-30S-0.5SH(78)
NC 1
LEV8R5V 2
LCD5V_BRT 3
LCD5V_BRT 4
STV 5
CKV 6
OEV 7
STH 8
CKH1 9
CKH2 10
PCG 11
OEVE 12
FR 13
WIDE 14
CKH3 15
CKH4 16
CSH 17
CSV 18
BL_CONT 19
VCOM 20
VCSH 21
VREF 22
R 23
G 24
B 25
GND 26
GND 27
GND 28
GND 29
LCD_RVS 30
LCD8R5V
LCD5V_BRT
R1047 100/J2
R1048 100/J2
R1040 100/J2
R1049 100/J2
R1050 100/J2
R1041 100/J2
R1051 100/J2
R1042 100/J2
R1052 100/J2
R1043 100/J2
R1053 100/J2
R1044 100/J2
R1054 100/J2
R1045 0/J2
R1055 0/J2
R1046 0/J2
003:L1 STV
003:L1 CKV
003:L1 OEV
003:L1 STH
003:L1 CKH1
003:L2 CKH2
003:L2 PCG
003:L2 OEVE
003:L2 FR
003:L2 WIDE
003:L2 CKH3
003:L2 CKH4
003:L2 CSH
003:L2 CSV
003:L2 BL_CONT
003:L2 VCOM
003:L2 VCSH
003:L2 VREF
003:L3 R
003:L3 G
003:L3 B
002:B2 LCD_RVS
U1000 0/J3 R1000
U1003 0/J3 R1001
U1006 0/J3 R1023
U1001 0/J3 R1002
U1004 0/J3 R1003
U1007 0/J3 R1024
U1002 0/J3 R1004
U1005 0/J3 R1005
U1008 0/J3 R1025
A
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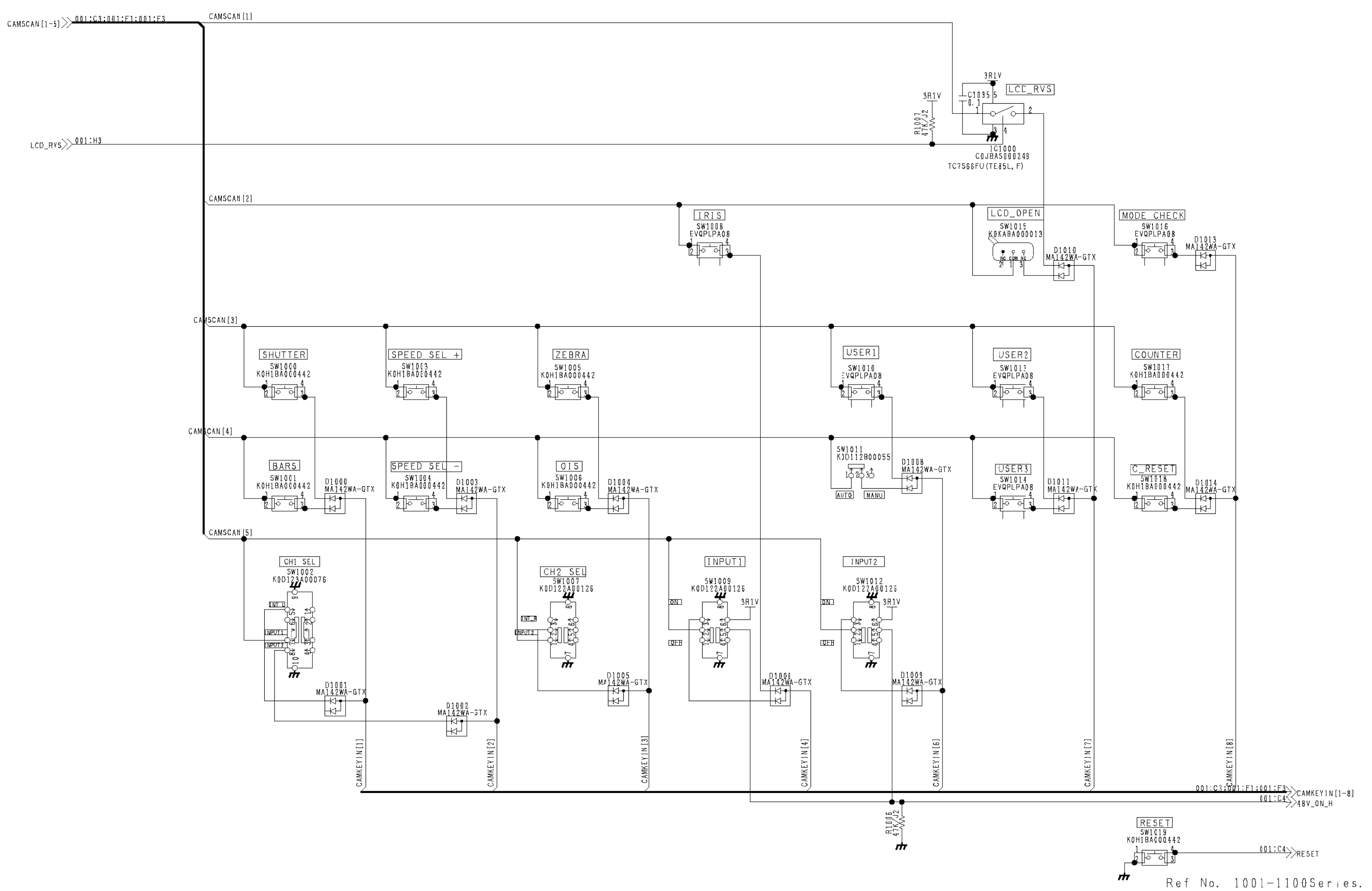
Ref No. 1001-1100Series.

COMPONENT NAME	R_SIDE	01/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001M6A	KR0A0390(1/3)	
	SCM070	


CAMSCAN[1-5]
001:C3;001:F1;001:F3
CAMSCAN[1]
LCD_RVS
001:H3
3R1V
C1035
0.1
LCC_RVS
R1007
47K/J2
IC1000
C0JBAS000249
TC7S66FU(TE85L,F)
CAMSCAN[2]
IRIS
SW1008
EVQPLPA08
LCD_OPEN
SW1015
K0KABA000013
D1010
MA142WA-GTX
MODE_CHECK
SW1016
EVQPLPA08
D1013
MA142WA-GTX
CAMSCAN[3]
SHUTTER
SW1000
K0H1BA000442
SPEED SEL +
SW1003
K0H1BA000442
ZEBRA
SW1005
K0H1BA000442
USER1
SW1010
EVQPLPA08
USER2
SW1013
EVQPLPA08
COUNTER
SW1017
K0H1BA000442
CAMSCAN[4]
BARS
SW1001
K0H1BA000442
D1000
MA142WA-GTX
SPEED SEL -
SW1004
K0H1BA000442
D1003
MA142WA-GTX
OIS
SW1006
K0H1BA000442
D1004
MA142WA-GTX
SW1011
K0D112B00055
D1008
MA142WA-GTX
AUTO
MANU
USER3
SW1014
EVQPLPA08
D1011
MA142WA-GTX
C_RESET
SW1018
K0H1BA000442
D1014
MA142WA-GTX
CAMSCAN[5]
CH1 SEL
SW1002
K0D123A00076
INT_U
INPUT1
INPUT3
CH2 SEL
SW1007
K0D122A00126
INT_R
INPUT2
INPUT1
SW1009
K0D122A00126
ON
OFF
3R1V
INPUT2
SW1012
K0D122A00126
ON
OFF
3R1V
D1001
MA142WA-GTX
D1002
MA142WA-GTX
D1005
MA142WA-GTX
D1006
MA142WA-GTX
D1009
MA142WA-GTX
CAMKEYIN[1]
CAMKEYIN[2]
CAMKEYIN[3]
CAMKEYIN[4]
CAMKEYIN[6]
CAMKEYIN[7]
CAMKEYIN[8]
001:C3;001:F1;001:F3
CAMKEYIN[1-8]
001:C4
48V_ON_H
R1006
47K/J2
RESET
SW1019
K0H1BA000442
001:C4
RESET

Ref No. 1001-1100Series.

COMPONENT NAME	R_SIDE	02/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001M6A	KR0A0390(2/3)	
	SCM071	

A
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C
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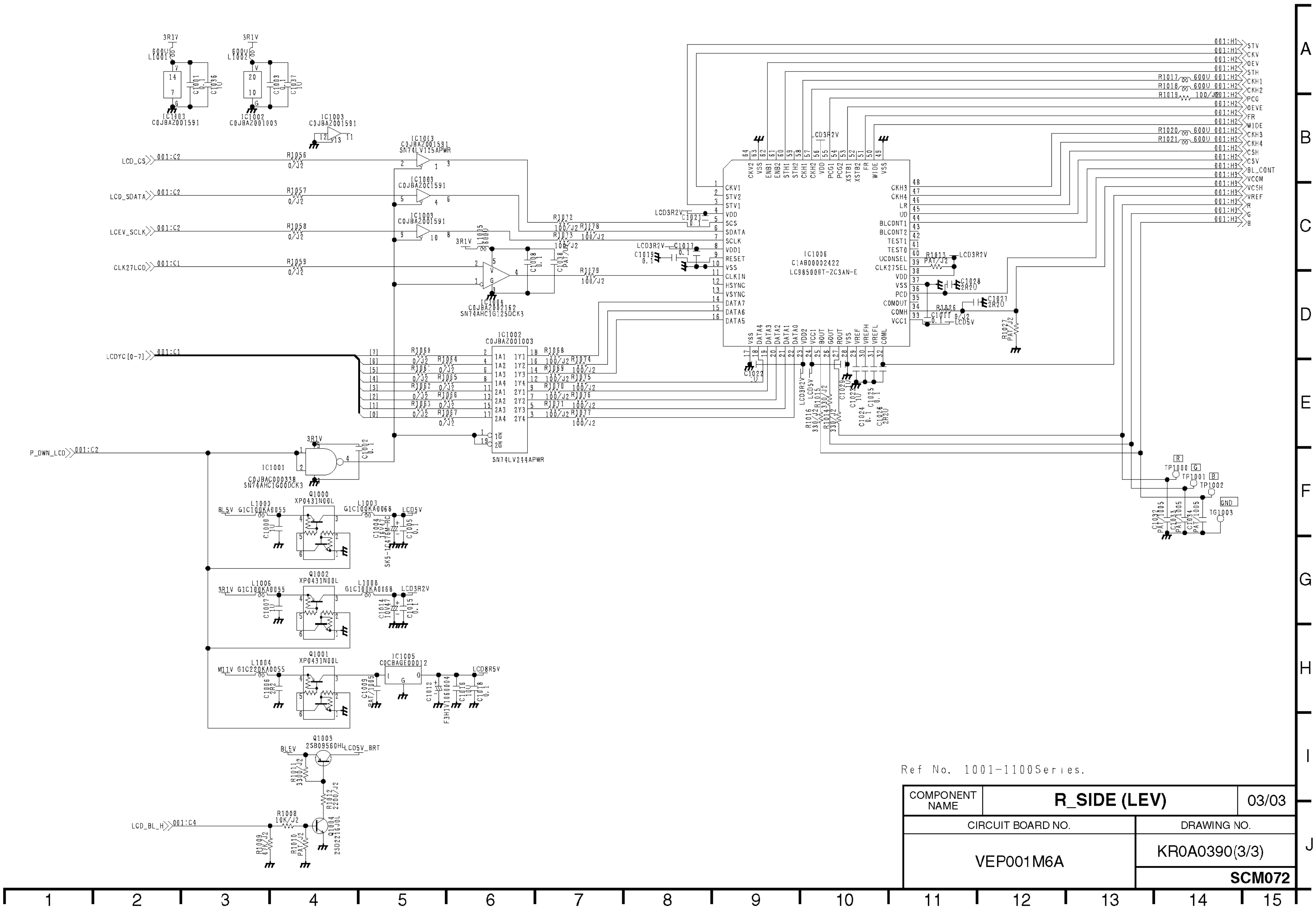
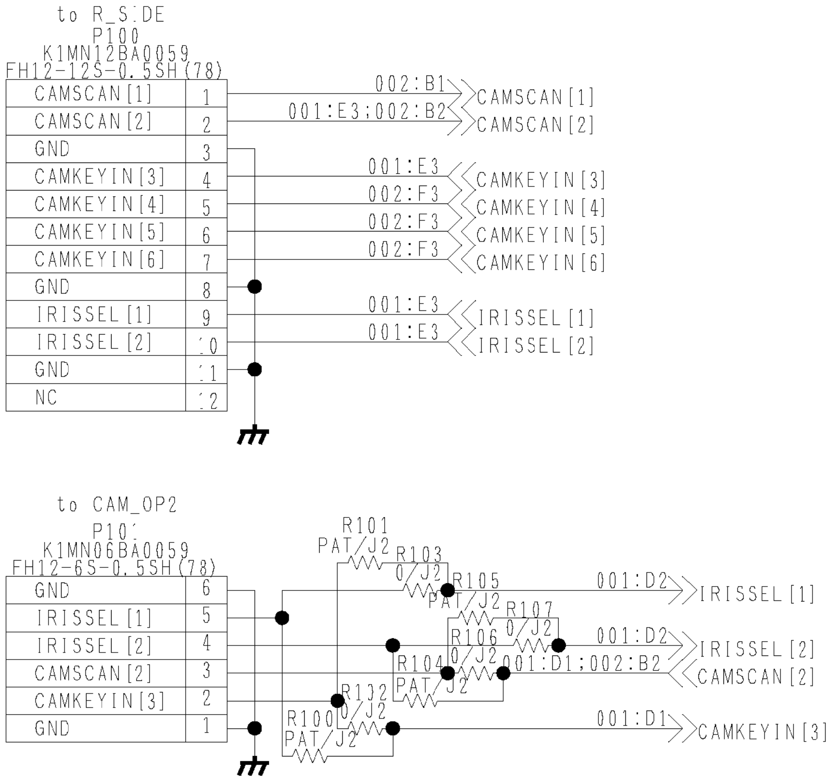

LCD_CS 001:C2
LCD_SDATA 001:C2
LCEV_SCLK 001:C2
CLK27LCD 001:C1
LCDYC[0-7] 001:C1
P_DWN_LCD 001:C2
LCD_BL_H 001:C4
IC1006
C1AB00002422
LC98500BT-ZC3AN-E
CKV1
STV2
STV1
VDD
SCS
SDATA
SCLK
VDD1
RESET
VSS
CLKIN
HSYNC
VSYNC
DATA7
DATA6
DATA5
CKV2
ENB1
ENB2
STH1
STH2
CKH1
CKH2
PCG1
PCG2
XSTB1
XSTB2
FR
WIDE
CKH3
CKH4
LR
UD
BLCONT1
BLCONT2
TEST1
TEST0
UCONSEL
CLK27SEL
PCD
COMOUT
COMH
VCC1
DATA4
DATA3
DATA2
DATA1
DATA0
VDD2
BOUT
GOUT
ROUT
VREF
VREFH
VREFL
COML
001:H1 STV
001:H1 CKV
001:H2 OEV
001:H2 STH
R1017 600U 001:H2 CKH1
R1018 600U 001:H2 CKH2
R1019 100/J2 001:H2 PCG
001:H2 OEVE
001:H2 FR
001:H2 WIDE
R1020 600U 001:H2 CKH3
R1021 600U 001:H2 CKH4
001:H2 CSH
001:H2 CSV
001:H3 BL_CONT
001:H3 VCOM
001:H3 VCSH
001:H3 VREF
001:H3 R
001:H3 G
001:H3 B
IC1002
C0JBAZ001003
SN74LV244APWR
IC1003
C0JBAZ001591
IC1013
C0JBAZ001591
SN74LV125APWR
IC1004
C0JBAZ002162
SN74AHC1G125DCK3
IC1001
C0JBAC000338
SN74AHC1G00DCK3
IC1005
C0CBAGE00012
Q1000
XP0431N00L
Q1002
XP0431N00L
Q1001
XP0431N00L
Q1003
2SB0956QHL
Q1004
2SD2216J0L
L1000 G1C100KA0055
L1003 G1C100KA0068
L1006 G1C100KA0055
L1008 G1C100KA0068
L1004 G1C220KA0055
BL5V
3R1V
M11V
LCD5V
LCD3R2V
LCD8R5V
LCD5V_BRT
BLEV
TP1000
TP1001
TP1002
TG1003
GND
R
G
B
Ref No. 1001-1100Series.

COMPONENT NAME	R_SIDE (LEV)	03/03
CIRCUIT BOARD NO.		DRAWING NO.
VEP001M6A		KR0A0390(3/3)
		SCM072


to R_SIDE
P100
K1MN12BA0059
FH12-12S-0.5SH(78)
CAMSCAN[1] 1
CAMSCAN[2] 2
GND 3
CAMKEYIN[3] 4
CAMKEYIN[4] 5
CAMKEYIN[5] 6
CAMKEYIN[6] 7
GND 8
IRISSEL[1] 9
IRISSEL[2] 10
GND 11
NC 12
002:B1
CAMSCAN[1]
001:E3;002:B2
CAMSCAN[2]
001:E3
CAMKEYIN[3]
002:F3
CAMKEYIN[4]
002:F3
CAMKEYIN[5]
002:F3
CAMKEYIN[6]
001:E3
IRISSEL[1]
001:E3
IRISSEL[2]
to CAM_OP2
P101
K1MN06BA0059
FH12-6S-0.5SH(78)
GND 6
IRISSEL[1] 5
IRISSEL[2] 4
CAMSCAN[2] 3
CAMKEYIN[3] 2
GND 1
R101
PAT/J2
R103
0/J2
R105
PAT/J2
R107
0/J2
R106
0/J2
R104
PAT/J2
R102
0/J2
R100
PAT/J2
001:D2
IRISSEL[1]
001:D2
IRISSEL[2]
001:D1;002:B2
CAMSCAN[2]
001:D1
CAMKEYIN[3]
A
B
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F
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I
J
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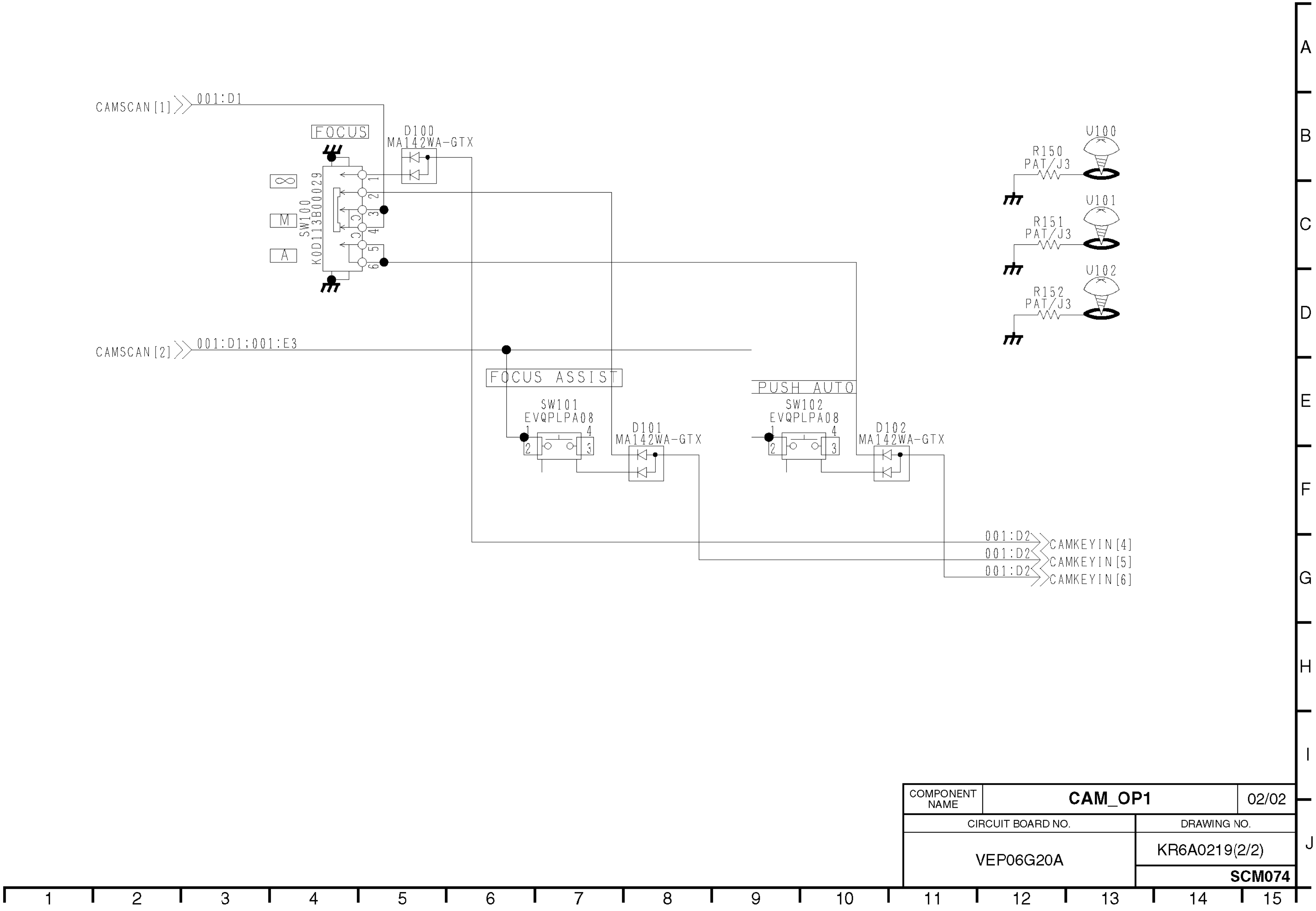
Ref. No100Series

COMPONENT NAME	**CAM_OP1**	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06G20A	KR6A0219(1/2)	
	SCM073	


CAMSCAN[1]
001:D1
FOCUS
D100
MA142WA-GTX
∞
M
A
SW100
K0D113B00029
1
2
3
4
5
6
C
C
CAMSCAN[2]
001:D1;001:E3
FOCUS ASSIST
SW101
EVQPLPA08
1
4
2
3
D101
MA142WA-GTX
PUSH AUTO
SW102
EVQPLPA08
1
4
2
3
D102
MA142WA-GTX
U100
R150
PAT/J3
U101
R151
PAT/J3
U102
R152
PAT/J3
001:D2
CAMKEYIN[4]
001:D2
CAMKEYIN[5]
001:D2
CAMKEYIN[6]
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
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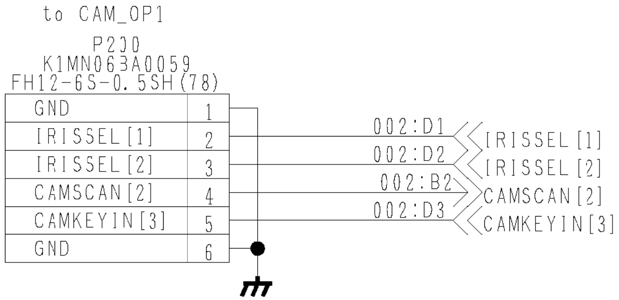
COMPONENT NAME	**CAM_OP1**	02/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06G20A	KR6A0219(2/2)	
	SCM074	

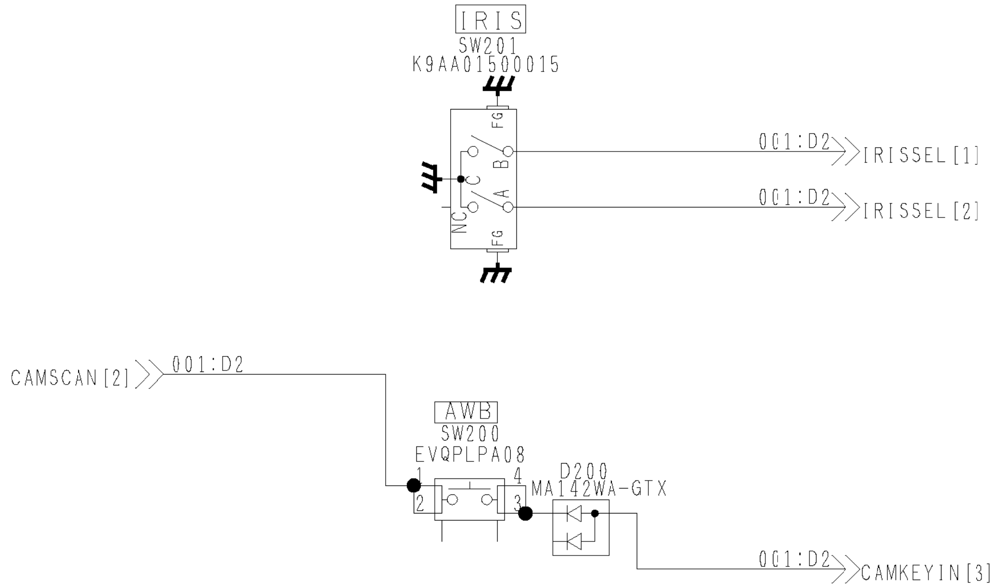

to CAM_OP1
P2J0
K1MN063A0059
FH12-6S-0.5SH(78)
GND 1
IRISSEL[1] 2
IRISSEL[2] 3
CAMSCAN[2] 4
CAMKEYIN[3] 5
GND 6
002:D1
002:D2
002:B2
002:D3
IRISSEL[1]
IRISSEL[2]
CAMSCAN[2]
CAMKEYIN[3]

Ref. No200Series

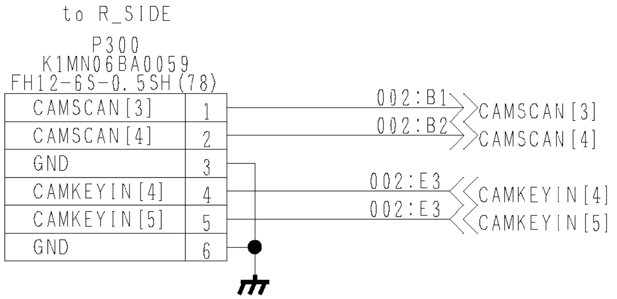
COMPONENT NAME	CAM_OP2	01/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP06G21A		KR6A0220(1/2)
		SCM075

A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

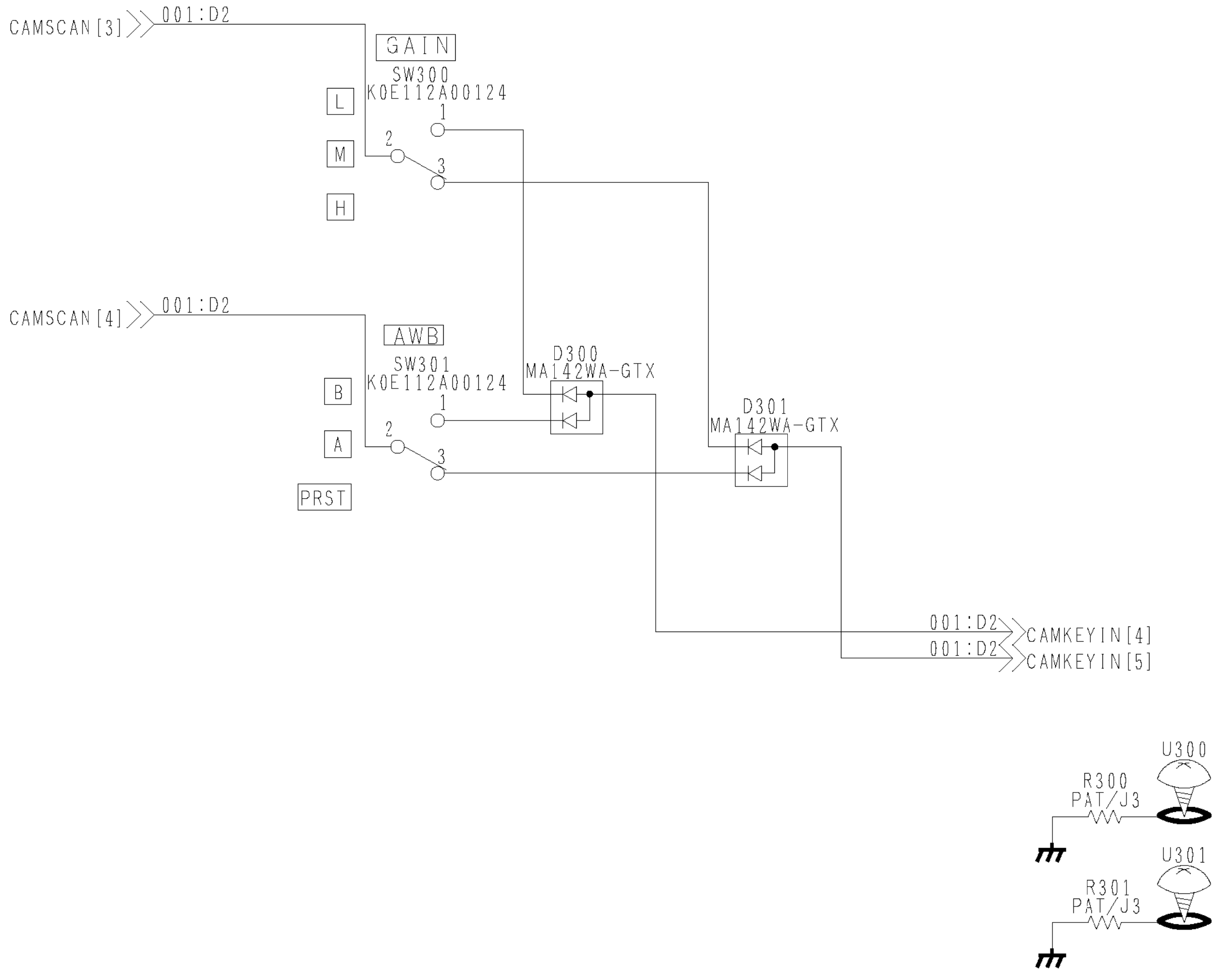

IRIS
SW201
K9AA01500015
FG
B
C
A
NC
FG
001:D2
IRISSEL[1]
001:D2
IRISSEL[2]
CAMSCAN[2]
001:D2
AWB
SW200
EVQPLPA08
1
2
4
3
D200
MA142WA-GTX
001:D2
CAMKEYIN[3]

COMPONENT NAME	CAM_OP2		02/02
CIRCUIT BOARD NO.		DRAWING NO.	
VEP06G21A		KR6A0220(2/2)	
		SCM076	

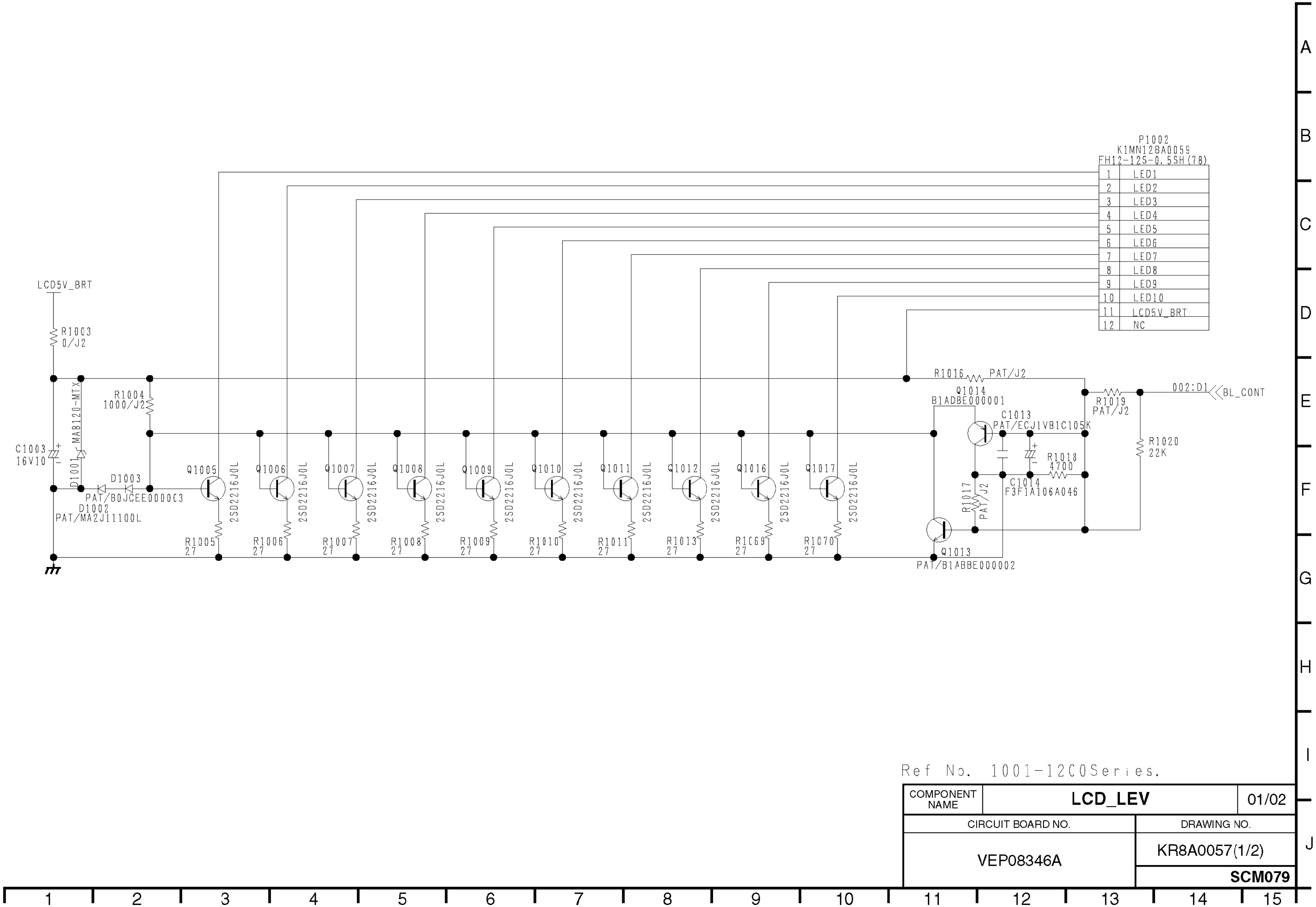

to R_SIDE
P300
K1MN06BA0059
FH12-6S-0.5SH(78)
CAMSCAN[3] 1
CAMSCAN[4] 2
GND 3
CAMKEYIN[4] 4
CAMKEYIN[5] 5
GND 6
002:B1
CAMSCAN[3]
002:B2
CAMSCAN[4]
002:E3
CAMKEYIN[4]
002:E3
CAMKEYIN[5]

Ref. No300Series

COMPONENT NAME	CAM_OP3	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06G22A	KR6A0221(1/2) **SCM077**	


CAMSCAN[3]
001:D2
GAIN
SW300
K0E112A00124
L
M
H
1
2
3
CAMSCAN[4]
001:D2
AWB
SW301
K0E112A00124
B
A
PRST
1
2
3
D300
MA142WA-GTX
D301
MA142WA-GTX
001:D2
CAMKEYIN[4]
001:D2
CAMKEYIN[5]
U300
R300
PAT/J3
U301
R301
PAT/J3

COMPONENT NAME	CAM_OP3	02/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP06G22A		KR6A0221(2/2)
		SCM078


P1002
K1MN12BA0059
FH12-12S-0.5SH(78)
1 LED1
2 LED2
3 LED3
4 LED4
5 LED5
6 LED6
7 LED7
8 LED8
9 LED9
10 LED10
11 LCD5V_BRT
12 NC
LCD5V_BRT
R1003
0/J2
R1004
1000/J2
C1003
16V10
D1001 MA8120-MTX
D1003
PAT/B0JCEE0000C3
D1002
PAT/MA2J1100L
Q1005
Q1006
Q1007
Q1008
Q1009
Q1010
Q1011
Q1012
Q1016
Q1017
2SD2216J0L
R1005 27
R1006 27
R1007 27
R1008 27
R1009 27
R1010 27
R1011 27
R1013 27
R1C69 27
R1070 27
R1016 PAT/J2
Q1014
B1ADBE000001
C1013
PAT/ECJ1VB1C105K
R1018
4700
C1014
F3F1A106A046
R1017
PAT/J2
Q1013
PAT/B1ABBE000002
R1019
PAT/J2
R1020
22K
002:D1
BL_CONT
A
B
C
D
E
F
G
H
I
J
1
2
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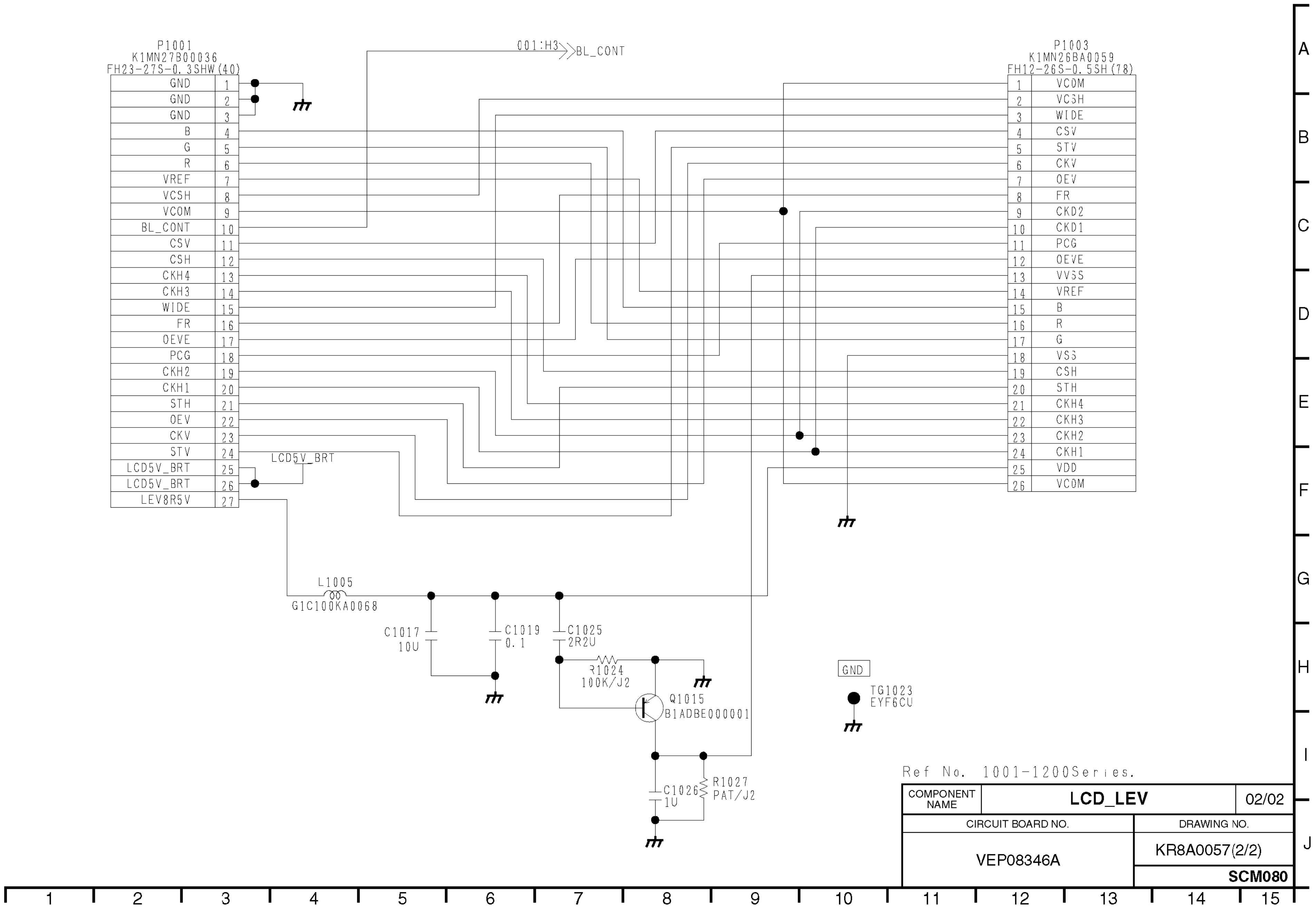
Ref No. 1001-12C0Series.

COMPONENT NAME	LCD_LEV	01/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP08346A		KR8A0057(1/2)
		SCM079


P1001
K1MN27B00036
FH23-27S-0.3SHW(40)
1 GND
2 GND
3 GND
4 B
5 G
6 R
7 VREF
8 VCSH
9 VCOM
10 BL_CONT
11 CSV
12 CSH
13 CKH4
14 CKH3
15 WIDE
16 FR
17 OEVE
18 PCG
19 CKH2
20 CKH1
21 STH
22 OEV
23 CKV
24 STV
25 LCD5V_BRT
26 LCD5V_BRT
27 LEV8R5V
LCD5V_BRT
001:H3
BL_CONT
P1003
K1MN26BA0059
FH12-26S-0.5SH(78)
1 VCOM
2 VCSH
3 WIDE
4 CSV
5 STV
6 CKV
7 OEV
8 FR
9 CKD2
10 CKD1
11 PCG
12 OEVE
13 VVSS
14 VREF
15 B
16 R
17 G
18 VSS
19 CSH
20 STH
21 CKH4
22 CKH3
23 CKH2
24 CKH1
25 VDD
26 VCOM
L1005
G1C100KA0068
C1017
10U
C1019
0.1
C1025
2R2U
R1024
100K/J2
Q1015
B1ADBE000001
C1026
1U
R1027
PAT/J2
GND
TG1023
EYF6CU
A
B
C
D
E
F
G
H
I
J
1
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6
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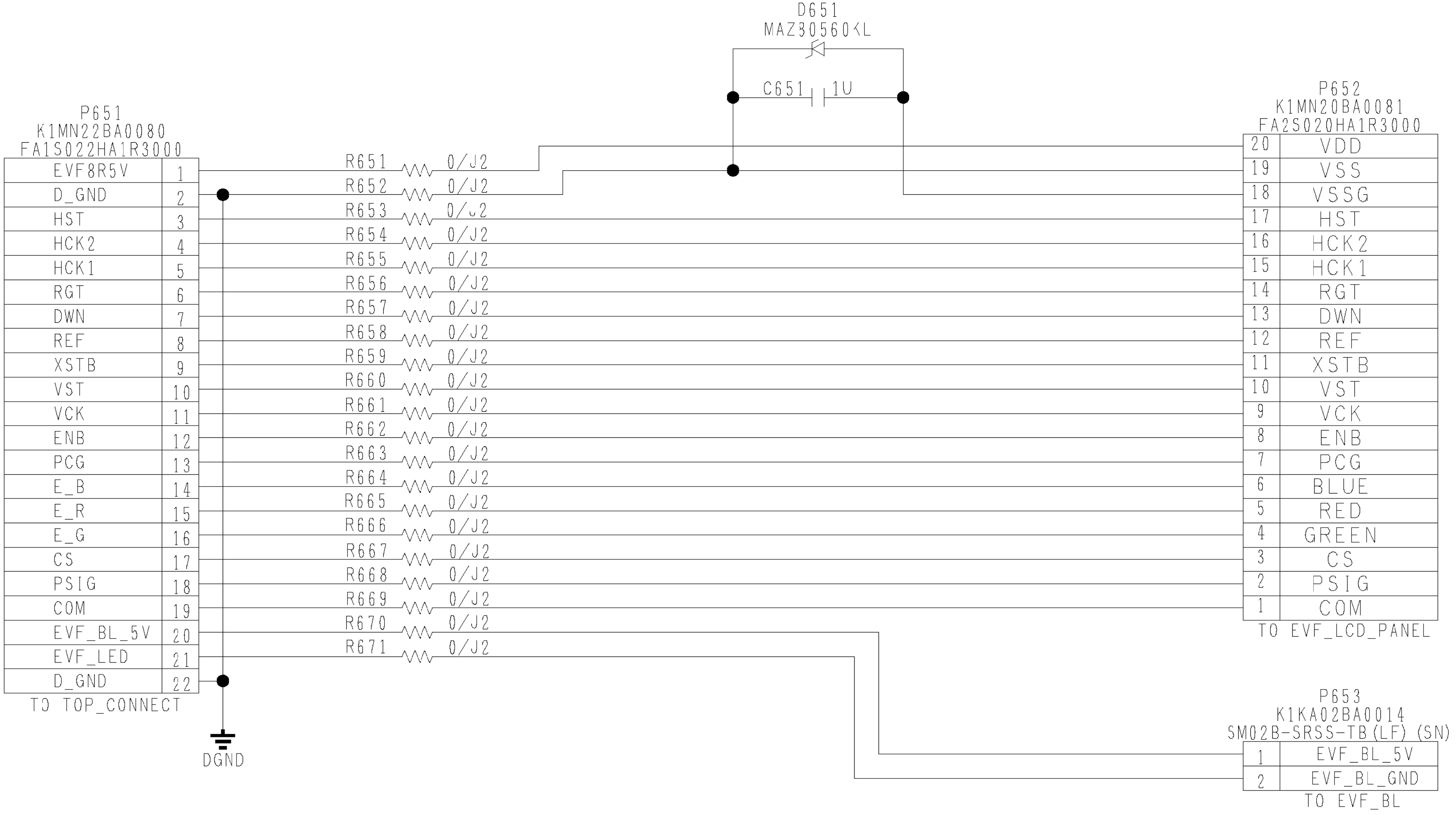
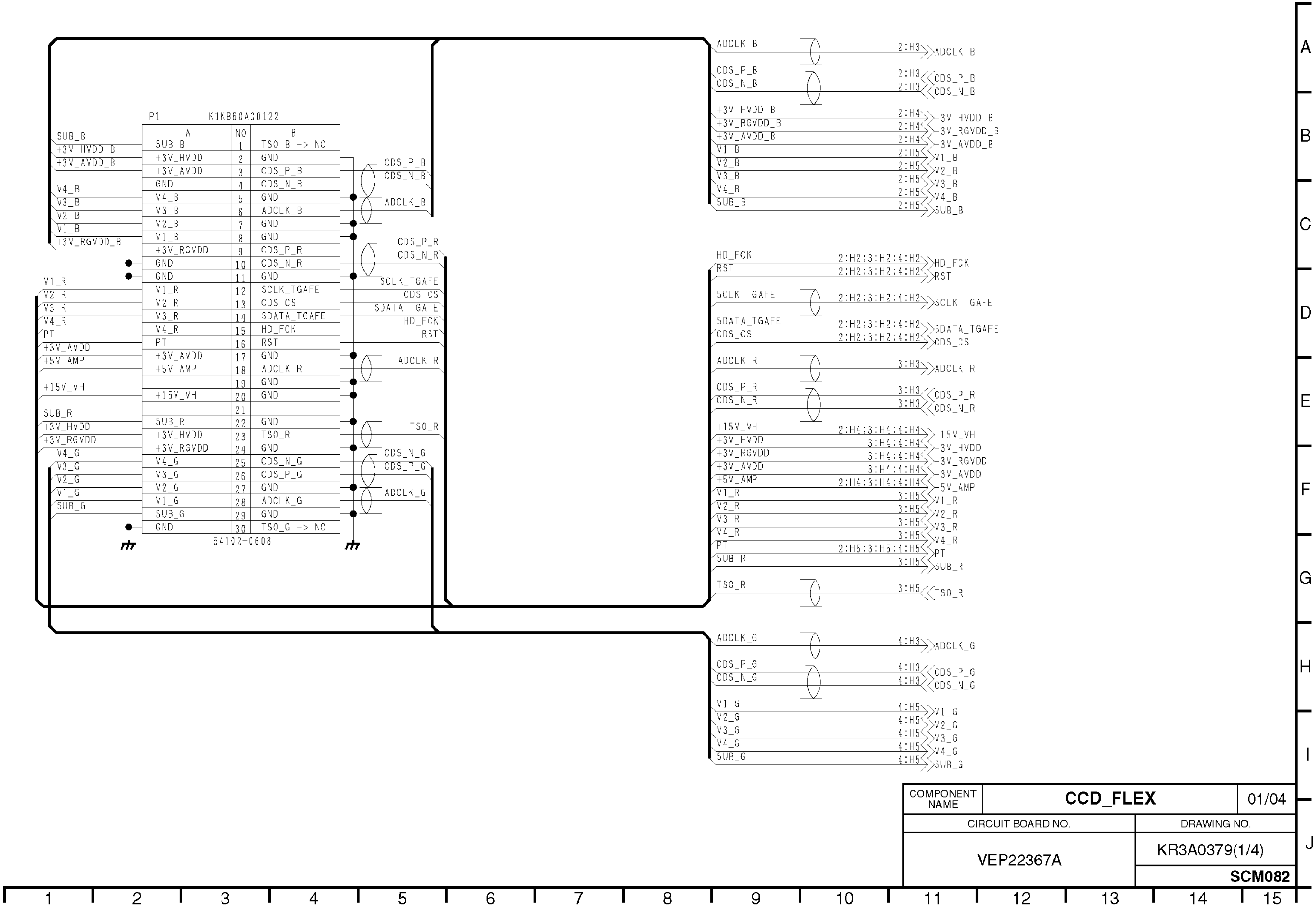
Ref No. 1001-1200Series.

COMPONENT NAME	LCD_LEV	02/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP08346A	KR8A0057(2/2)	
	SCM080	


P651
K1MN22BA0080
FA1S022HA1R3000
EVF8R5V 1
D_GND 2
HST 3
HCK2 4
HCK1 5
RGT 6
DWN 7
REF 8
XSTB 9
VST 10
VCK 11
ENB 12
PCG 13
E_B 14
E_R 15
E_G 16
CS 17
PSIG 18
COM 19
EVF_BL_5V 20
EVF_LED 21
D_GND 22
TO TOP_CONNECT
DGND
R651 0/J2
R652 0/J2
R653 0/J2
R654 0/J2
R655 0/J2
R656 0/J2
R657 0/J2
R658 0/J2
R659 0/J2
R660 0/J2
R661 0/J2
R662 0/J2
R663 0/J2
R664 0/J2
R665 0/J2
R666 0/J2
R667 0/J2
R668 0/J2
R669 0/J2
R670 0/J2
R671 0/J2
D651
MAZ30560KL
C651 1U
P652
K1MN20BA0081
FA2S020HA1R3000
20 VDD
19 VSS
18 VSSG
17 HST
16 HCK2
15 HCK1
14 RGT
13 DWN
12 REF
11 XSTB
10 VST
9 VCK
8 ENB
7 PCG
6 BLUE
5 RED
4 GREEN
3 CS
2 PSIG
1 COM
TO EVF_LCD_PANEL
P653
K1KA02BA0014
SM02B-SRSS-TB(LF)(SN)
1 EVF_BL_5V
2 EVF_BL_GND
TO EVF_BL

Ref No. 651-700 Series.

COMPONENT NAME	EVF CONNECT		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP29166A		KR3A0339(1/1)	
		SCM081	


P1
K1KB60A00122
54102-0608
SUB_B
+3V_HVDD_B
+3V_AVDD_B
V4_B
V3_B
V2_B
V1_B
+3V_RGVDD_B
V1_R
V2_R
V3_R
V4_R
PT
+3V_AVDD
+5V_AMP
+15V_VH
SUB_R
+3V_HVDD
+3V_RGVDD
V4_G
V3_G
V2_G
V1_G
SUB_G
CDS_P_B
CDS_N_B
ADCLK_B
CDS_P_R
CDS_N_R
SCLK_TGAFE
CDS_CS
SDATA_TGAFE
HD_FCK
RST
ADCLK_R
TSO_R
CDS_N_G
CDS_P_G
ADCLK_G
2:H3 ADCLK_B
2:H3 CDS_P_B
2:H3 CDS_N_B
2:H4 +3V_HVDD_B
2:H4 +3V_RGVDD_B
2:H4 +3V_AVDD_B
2:H5 V1_B
2:H5 V2_B
2:H5 V3_B
2:H5 V4_B
2:H5 SUB_B
2:H2;3:H2;4:H2 HD_FCK
2:H2;3:H2;4:H2 RST
2:H2;3:H2;4:H2 SCLK_TGAFE
2:H2;3:H2;4:H2 SDATA_TGAFE
2:H2;3:H2;4:H2 CDS_CS
3:H3 ADCLK_R
3:H3 CDS_P_R
3:H3 CDS_N_R
2:H4;3:H4;4:H4 +15V_VH
3:H4;4:H4 +3V_HVDD
3:H4;4:H4 +3V_RGVDD
3:H4;4:H4 +3V_AVDD
2:H4;3:H4;4:H4 +5V_AMP
3:H5 V1_R
3:H5 V2_R
3:H5 V3_R
3:H5 V4_R
2:H5;3:H5;4:H5 PT
3:H5 SUB_R
3:H5 TSO_R
4:H3 ADCLK_G
4:H3 CDS_P_G
4:H3 CDS_N_G
4:H5 V1_G
4:H5 V2_G
4:H5 V3_G
4:H5 V4_G
4:H5 SUB_G
A
B
C
D
E
F
G
H
I
J
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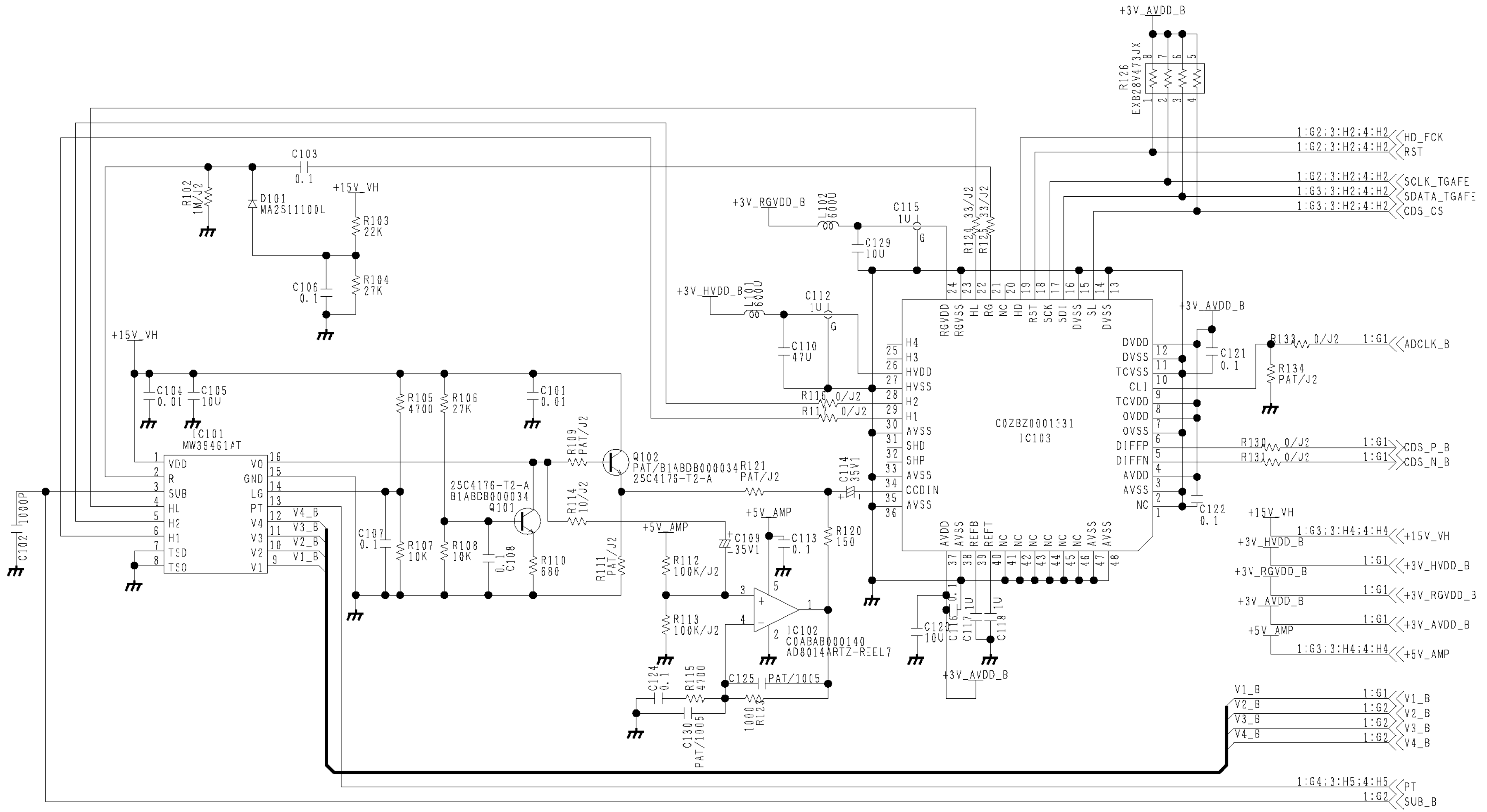
P1 K1KB60A00122

A	NO	B
SUB_B	1	TSO_B -> NC
+3V_HVDD	2	GND
+3V_AVDD	3	CDS_P_B
GND	4	CDS_N_B
V4_B	5	GND
V3_B	6	ADCLK_B
V2_B	7	GND
V1_B	8	GND
+3V_RGVDD	9	CDS_P_R
GND	10	CDS_N_R
GND	11	GND
V1_R	12	SCLK_TGAFE
V2_R	13	CDS_CS
V3_R	14	SDATA_TGAFE
V4_R	15	HD_FCK
PT	16	RST
+3V_AVDD	17	GND
+5V_AMP	18	ADCLK_R
	19	GND
+15V_VH	20	GND
	21	
SUB_R	22	GND
+3V_HVDD	23	TSO_R
+3V_RGVDD	24	GND
V4_G	25	CDS_N_G
V3_G	26	CDS_P_G
V2_G	27	GND
V1_G	28	ADCLK_G
SUB_G	29	GND
GND	30	TSO_G -> NC

54102-0608

COMPONENT NAME	CCD_FLEX	01/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP22367A	KR3A0379(1/4)	
	SCM082	


+3V_AVDD_B
R126
EXB28V473JX
HD_FCK
RST
SCLK_TGAFE
SDATA_TGAFE
CDS_CS
1:G2;3:H2;4:H2
1:G3;3:H2;4:H2
C103
0.1
R102
1M/J2
D101
MA2S1100L
+15V_VH
R103
22K
R104
27K
C106
0.1
+3V_RGVDD_B
L102
600Ω
C115
1U
C129
10U
R124 33/J2
R125 33/J2
+3V_HVDD_B
L101
600Ω
C112
1U
C110
47U
R116 0/J2
R117 0/J2
C0ZBZ0001331
IC103
RGVDD
RGVSS
HL
RG
NC
HD
RST
SCK
SDI
DVSS
SL
DVSS
H4
H3
HVDD
HVSS
H2
H1
AVSS
SHD
SHP
AVSS
CCDIN
AVSS
DVDD
DVSS
TCVSS
CLI
TCVDD
OVDD
OVSS
DIFFP
DIFFN
AVDD
AVSS
NC
AVDD
AVSS
REFB
REFT
C121
0.1
R133 0/J2
R134
PAT/J2
1:G1
ADCLK_B
R130 0/J2
R131 0/J2
CDS_P_B
CDS_N_B
C122
0.1
+15V_VH
+3V_HVDD_B
+3V_RGVDD_B
+3V_AVDD_B
+5V_AMP
1:G3;3:H4;4:H4
C104
0.01
C105
10U
IC101
MW35461AT
VDD
R
SUB
HL
H2
H1
TSD
TSO
VO
GND
LG
PT
V4
V3
V2
V1
V4_B
V3_B
V2_B
V1_B
C102
1000P
R105
4700
R106
27K
C101
0.01
R109
PAT/J2
Q102
PAT/B1ABDB000034
2SC4175-T2-A
R121
PAT/J2
C114
35V1
2SC4176-T2-A
B1ABDB000034
Q101
R114
10/J2
C107
0.1
R107
10K
R108
10K
C108
0.1
R110
680
R111
PAT/J2
+5V_AMP
C109
35V1
C113
0.1
R120
150
R112
100K/J2
R113
100K/J2
IC102
C0ABAB000140
AD8014ARTZ-REEL7
C124
0.1
R115
4700
C130
PAT/1005
C125
PAT/1005
R123
1000
C116 0.1
C117 1U
C118 1U
C127
10U
1:G2
1:G4;3:H5;4:H5
PT
SUB_B
A
B
C
D
E
F
G
H
I
J
1
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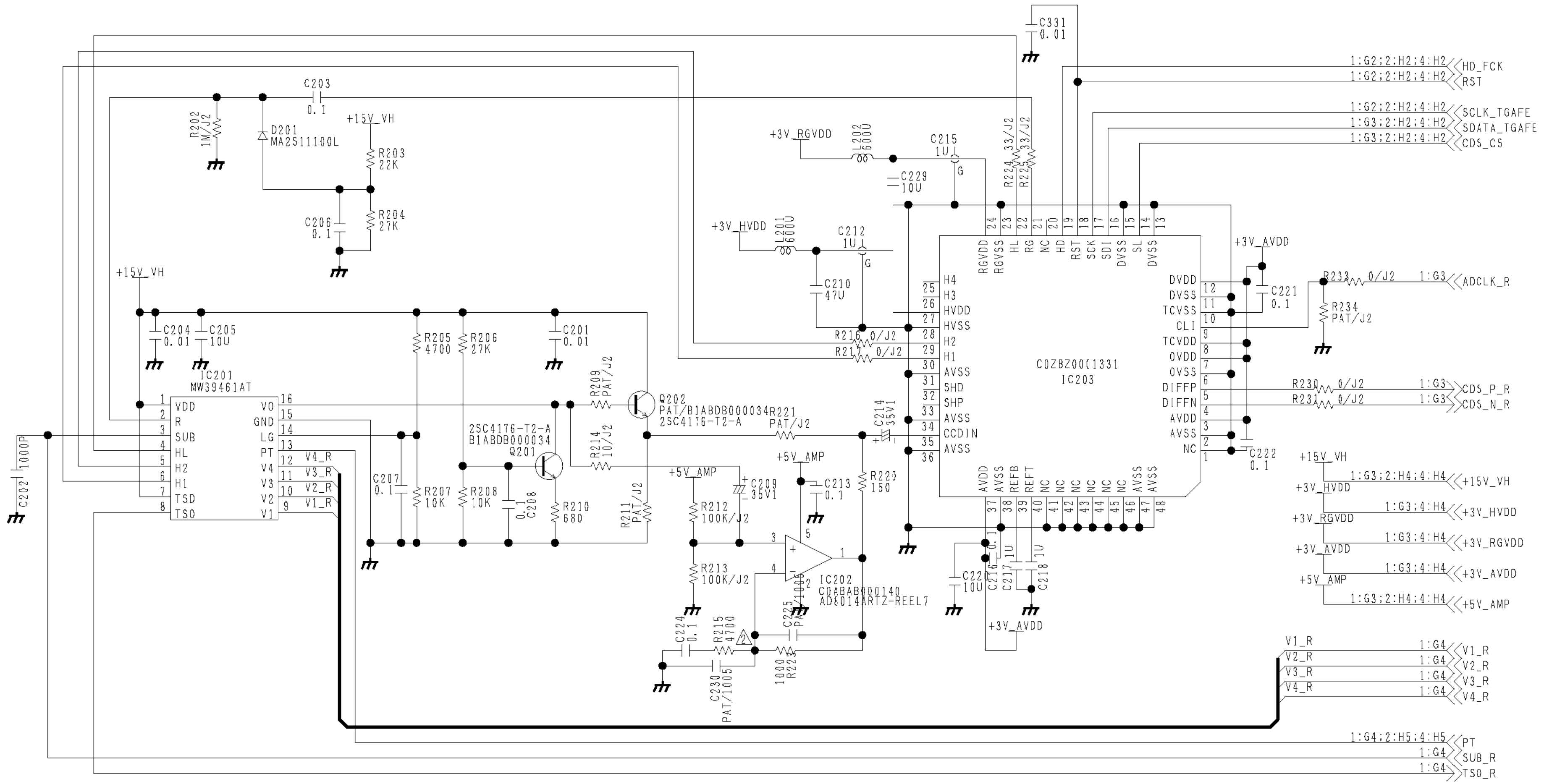
COMPONENT NAME	CCD_FLEX		02/04
CIRCUIT BOARD NO.		DRAWING NO.	
VEP22367A		KR3A0379(2/4)	
		SCM083	


IC203
C0ZBZ0001331
IC201
MW39461AT
IC202
C0ABAB000140
AD8014ARTZ-REEL7
Q201
2SC4176-T2-A
B1ABDB000034
Q202
PAT/B1ABDB000034
2SC4176-T2-A
D201
MA2S111O0L
+15V_VH
+3V_RGVDD
+3V_HVDD
+3V_AVDD
+5V_AMP
HD_FCK
RST
SCLK_TGAFE
SDATA_TGAFE
CDS_CS
ADCLK_R
CDS_P_R
CDS_N_R
V1_R
V2_R
V3_R
V4_R
PT
SUB_R
TSO_R
1:G2;2:H2;4:H2
1:G3;2:H2;4:H2
1:G3;2:H4;4:H4
1:G3;4:H4
1:G3
1:G4
1:G4;2:H5;4:H5
RGVDD
RGVSS
HL
RG
NC
HD
RST
SCK
SDI
DVSS
SL
DVDD
TCVSS
CLI
TCVDD
OVDD
OVSS
DIFFP
DIFFN
AVDD
AVSS
H4
H3
HVDD
HVSS
H2
H1
SHD
SHP
CCDIN
REFB
REFT
VDD
R
SUB
TSD
TSO
VO
GND
LG
V4
V3
V2
V1
C331 0.01
C203 0.1
R202 1M/J2
R203 22K
R204 27K
C206 0.1
C204 0.01
C205 10U
R205 4700
R206 27K
C201 0.01
R207 10K
R208 10K
C207 0.1
C208 0.1
R209 PAT/J2
R210 680
R211 PAT/J2
R214 10/J2
R221 PAT/J2
C202 1000P
L202 600U
L201 600U
C215 1U
C229 10U
C212 1U
C210 47U
R216 0/J2
R217 0/J2
R224 33/J2
R225 33/J2
C214 35V1
R222 150
C209 35V1
R212 100K/J2
R213 100K/J2
C213 0.1
C224 0.1
R215 4700
C230 PAT/1005
C225 PAT/1005
R223 1000
C220 10U
C216 0.1
C217 1U
C218 1U
C221 0.1
C222 0.1
R233 0/J2
R234 PAT/J2
R230 0/J2
R231 0/J2
G
A
B
C
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G
H
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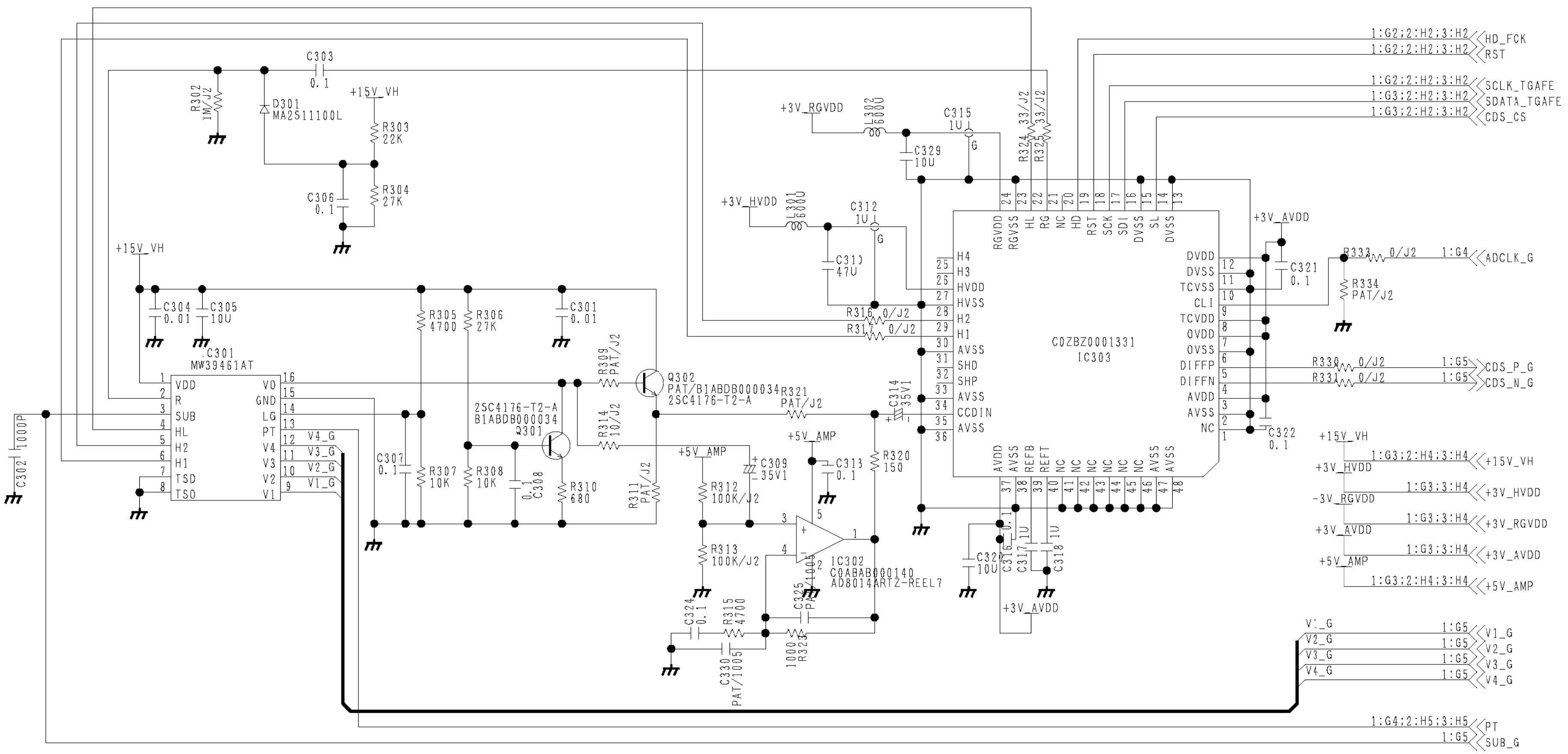
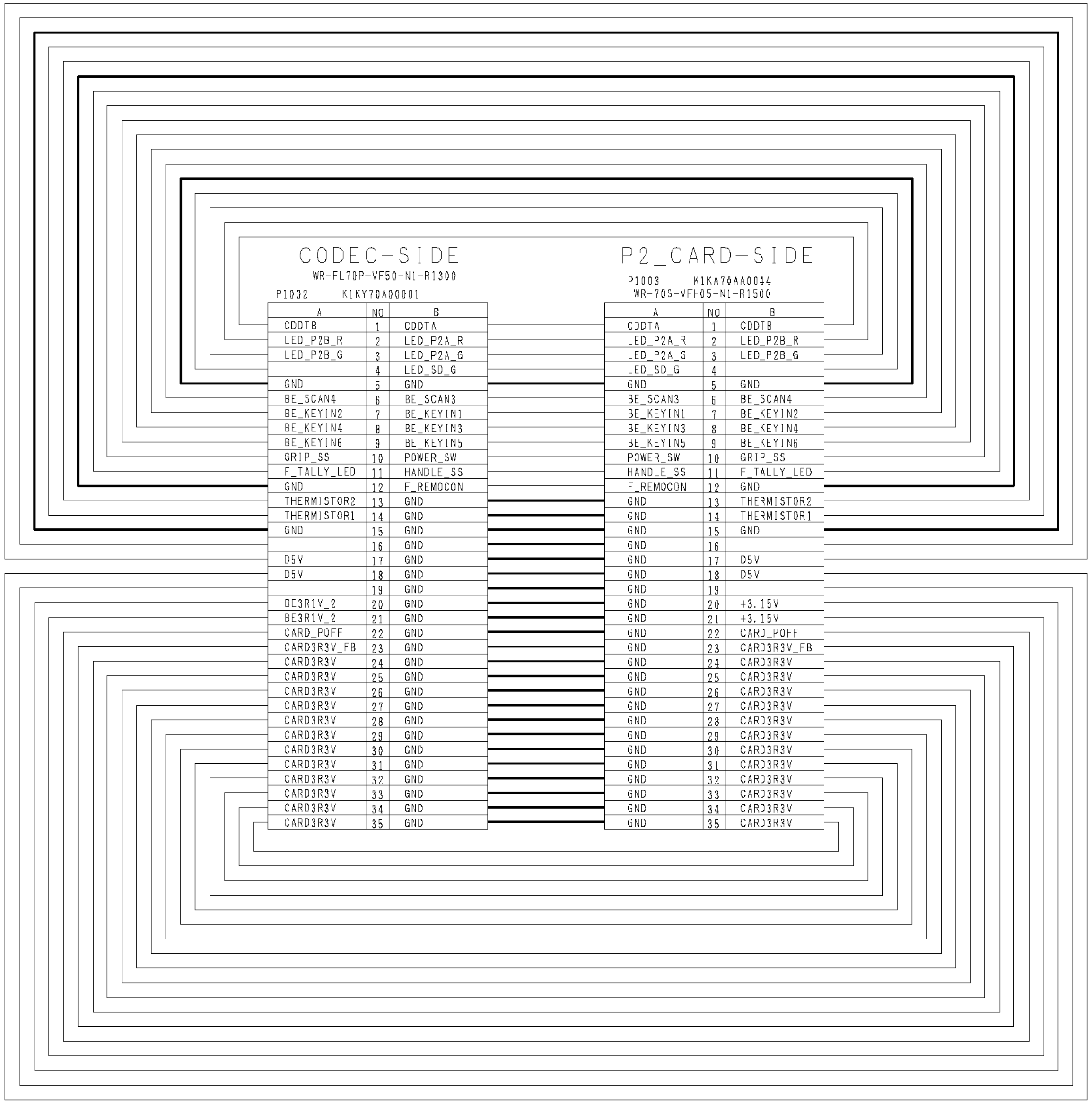
COMPONENT NAME	CCD_FLEX		03/04
CIRCUIT BOARD NO.		DRAWING NO.	
VEP22367A		KR3A0379(3/4)	
		SCM084	


IC303
C0ZBZ0001331
RGVDD
RGVSS
HL
RG
NC
HD
RST
SCK
SDI
DVSS
SL
DVSS
H4
H3
HVDD
HVSS
H2
H1
AVSS
SHD
SHP
AVSS
CCDIN
AVSS
DVDD
DVSS
TCVSS
CLI
TCVDD
OVDD
OVSS
DIFFP
DIFFN
AVDD
AVSS
NC
AVDD
AVSS
REFB
REFT
NC
AVSS
C301
MW39461AT
VDD
R
SUB
HL
H2
H1
TSD
TSO
VO
GND
LG
PT
V4
V3
V2
V1
V4_G
V3_G
V2_G
V1_G
Q302
PAT/B1ABDB000034
2SC4176-T2-A
Q301
2SC4176-T2-A
B1ABDB000034
IC302
C0ABAB000140
AD8014ARTZ-REEL7
R302 1M/J2
D301 MA2S11100L
C303 0.1
+15V_VH
R303 22K
R304 27K
C306 0.1
C304 0.01
C305 10U
R305 4700
R306 27K
C301 0.01
R309 PAT/J2
R314 10/J2
R307 10K
R308 10K
C307 0.1
C308 0.1
R310 680
R311 PAT/J2
C302 1000P
+3V_RGVDD
L302 600U
C315 1U
C329 10U
R324 33/J2
R325 33/J2
+3V_HVDD
L301 600U
C312 1U
C310 47U
R316 0/J2
R317 0/J2
R321 PAT/J2
C314 35V1
+5V_AMP
C309 35V1
R312 100K/J2
R313 100K/J2
C313 0.1
R320 150
C324 0.1
R315 4700
C330 PAT/1005
C325 PAT/1005
R323 1000
+3V_AVDD
C316 0.1
C317 1U
C318 1U
C320 10U
C321 0.1
C322 0.1
R333 0/J2
R334 PAT/J2
R330 0/J2
R331 0/J2
1:G2;2:H2;3:H2 HD_FCK
1:G2;2:H2;3:H2 RST
1:G2;2:H2;3:H2 SCLK_TGAFE
1:G3;2:H2;3:H2 SDATA_TGAFE
1:G3;2:H2;3:H2 CDS_CS
1:G4 ADCLK_G
1:G5 CDS_P_G
1:G5 CDS_N_G
+15V_VH
1:G3;2:H4;3:H4 +15V_VH
+3V_HVDD
1:G3;3:H4 +3V_HVDD
-3V_RGVDD
1:G3;3:H4 +3V_RGVDD
+3V_AVDD
1:G3;3:H4 +3V_AVDD
+5V_AMP
1:G3;2:H4;3:H4 +5V_AMP
V1_G
V2_G
V3_G
V4_G
1:G5 V1_G
1:G5 V2_G
1:G5 V3_G
1:G5 V4_G
1:G4;2:H5;3:H5 PT
1:G5 SUB_G

COMPONENT NAME	CCD_FLEX	04/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP22367A	KR3A0379(4/4)	
	SCM085	



CODEC-SIDE

WR-FL70P-VF50-N1-R1300

P1002 K1KY70A00001

A	NO	B
CDDTB	1	CDDTA
LED_P2B_R	2	LED_P2A_R
LED_P2B_G	3	LED_P2A_G
	4	LED_SD_G
GND	5	GND
BE_SCAN4	6	BE_SCAN3
BE_KEYIN2	7	BE_KEYIN1
BE_KEYIN4	8	BE_KEYIN3
BE_KEYIN6	9	BE_KEYIN5
GRIP_SS	10	POWER_SW
F_TALLY_LED	11	HANDLE_SS
GND	12	F_REMOCON
THERMISTOR2	13	GND
THERMISTOR1	14	GND
GND	15	GND
	16	GND
D5V	17	GND
D5V	18	GND
	19	GND
BE3R1V_2	20	GND
BE3R1V_2	21	GND
CARD_POFF	22	GND
CARD3R3V_FB	23	GND
CARD3R3V	24	GND
CARD3R3V	25	GND
CARD3R3V	26	GND
CARD3R3V	27	GND
CARD3R3V	28	GND
CARD3R3V	29	GND
CARD3R3V	30	GND
CARD3R3V	31	GND
CARD3R3V	32	GND
CARD3R3V	33	GND
CARD3R3V	34	GND
CARD3R3V	35	GND

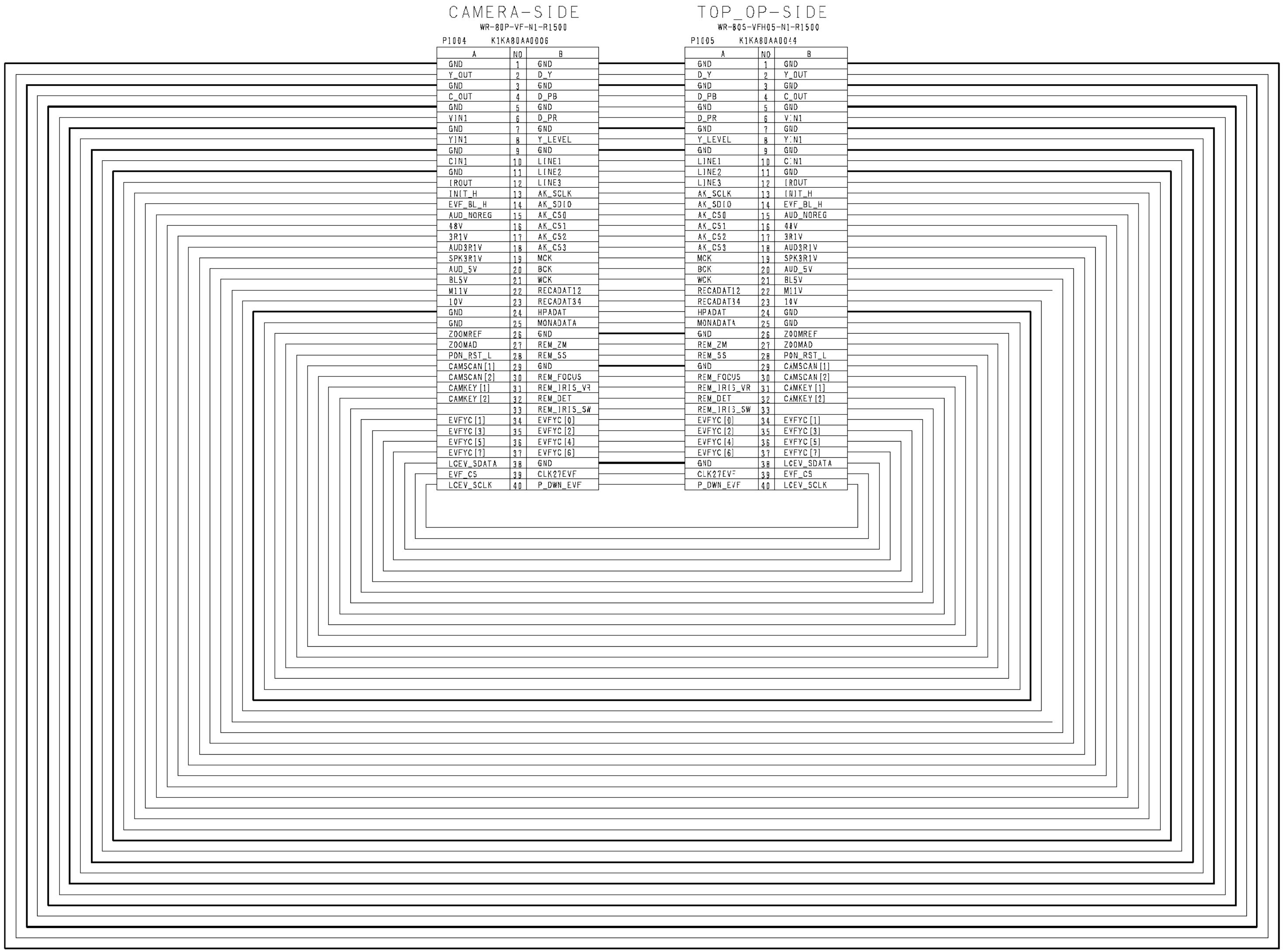
P2_CARD-SIDE

P1003 K1KA70AA0044

WR-70S-VFH05-N1-R1500

A	NO	B
CDDTA	1	CDDTB
LED_P2A_R	2	LED_P2B_R
LED_P2A_G	3	LED_P2B_G
LED_SD_G	4	
GND	5	GND
BE_SCAN3	6	BE_SCAN4
BE_KEYIN1	7	BE_KEYIN2
BE_KEYIN3	8	BE_KEYIN4
BE_KEYIN5	9	BE_KEYIN6
POWER_SW	10	GRIP_SS
HANDLE_SS	11	F_TALLY_LED
F_REMOCON	12	GND
GND	13	THERMISTOR2
GND	14	THERMISTOR1
GND	15	GND
GND	16	
GND	17	D5V
GND	18	D5V
GND	19	
GND	20	+3.15V
GND	21	+3.15V
GND	22	CARD_POFF
GND	23	CARD3R3V_FB
GND	24	CARD3R3V
GND	25	CARD3R3V
GND	26	CARD3R3V
GND	27	CARD3R3V
GND	28	CARD3R3V
GND	29	CARD3R3V
GND	30	CARD3R3V
GND	31	CARD3R3V
GND	32	CARD3R3V
GND	33	CARD3R3V
GND	34	CARD3R3V
GND	35	CARD3R3V

COMPONENT NAME	CODEC P2 FPC	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G94A	KR0A0409(1/1)	
	SCM086	



CAMERA-SIDE (P1004)

A	NO	B
GND	1	GND
Y_OUT	2	D_Y
GND	3	GND
C_OUT	4	D_PB
GND	5	GND
VIN1	6	D_PR
GND	7	GND
YIN1	8	Y_LEVEL
GND	9	GND
CIN1	10	LINE1
GND	11	LINE2
IROUT	12	LINE3
INIT_H	13	AK_SCLK
EVF_BL_H	14	AK_SDIO
AUD_NOREG	15	AK_CS0
48V	16	AK_CS1
3R1V	17	AK_CS2
AUD3R1V	18	AK_CS3
SPK3R1V	19	MCK
AUD_5V	20	BCK
BL5V	21	WCK
M11V	22	RECADAT12
10V	23	RECADAT34
GND	24	HPADAT
GND	25	MONADATA
ZOOMREF	26	GND
ZOOMAD	27	REM_ZM
PON_RST_L	28	REM_SS
CAMSCAN[1]	29	GND
CAMSCAN[2]	30	REM_FOCUS
CAMKEY[1]	31	REM_IRIS_VR
CAMKEY[2]	32	REM_DET
	33	REM_IRIS_SW
EVFYC[1]	34	EVFYC[0]
EVFYC[3]	35	EVFYC[2]
EVFYC[5]	36	EVFYC[4]
EVFYC[7]	37	EVFYC[6]
LCEV_SDATA	38	GND
EVF_CS	39	CLK27EVF
LCEV_SCLK	40	P_DWN_EVF

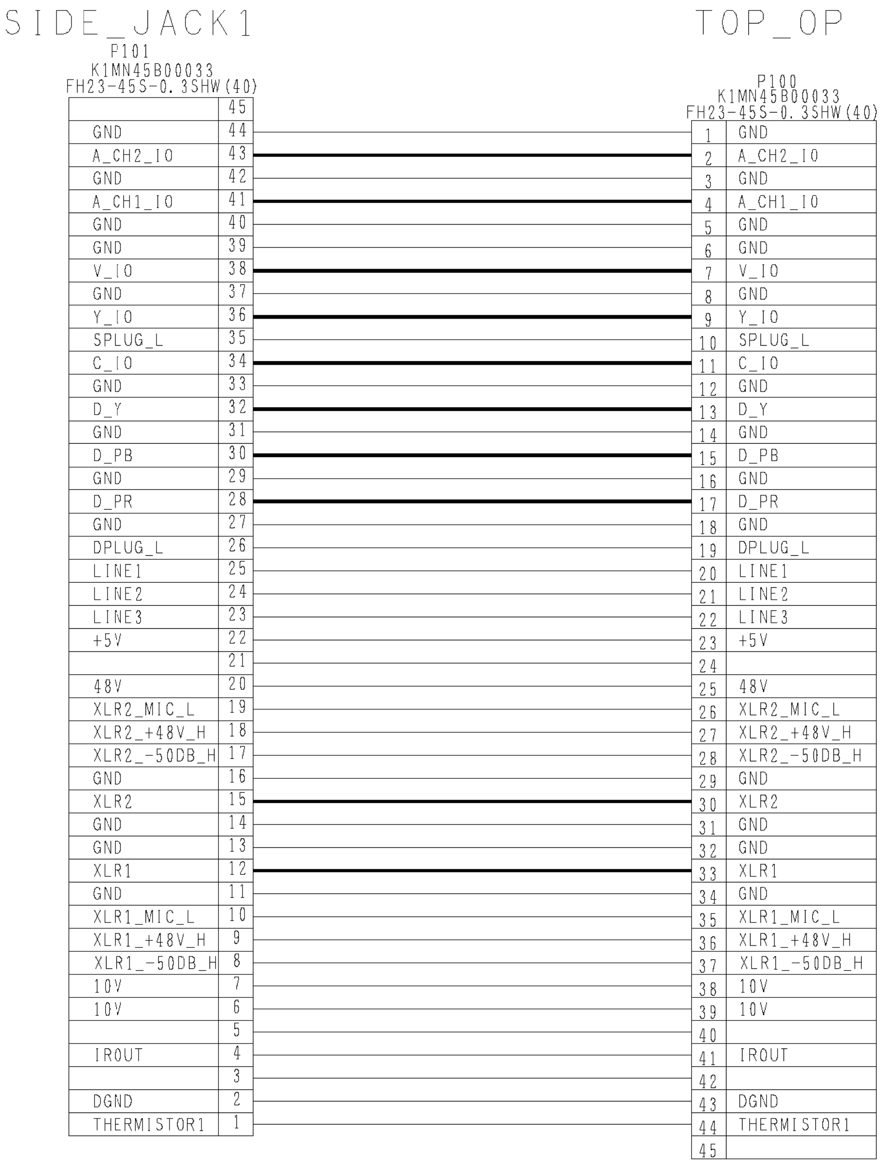
TOP_OP-SIDE (P1005)

A	NO	B
GND	1	GND
D_Y	2	Y_OUT
GND	3	GND
D_PB	4	C_OUT
GND	5	GND
D_PR	6	VIN1
GND	7	GND
Y_LEVEL	8	YIN1
GND	9	GND
LINE1	10	CIN1
LINE2	11	GND
LINE3	12	IROUT
AK_SCLK	13	INIT_H
AK_SDIO	14	EVF_BL_H
AK_CS0	15	AUD_NOREG
AK_CS1	16	48V
AK_CS2	17	3R1V
AK_CS3	18	AUD3R1V
MCK	19	SPK3R1V
BCK	20	AUD_5V
WCK	21	BL5V
RECADAT12	22	M11V
RECADAT34	23	10V
HPADAT	24	GND
MONADATA	25	GND
GND	26	ZOOMREF
REM_ZM	27	ZOOMAD
REM_SS	28	PON_RST_L
GND	29	CAMSCAN[1]
REM_FOCUS	30	CAMSCAN[2]
REM_IRIS_VR	31	CAMKEY[1]
REM_DET	32	CAMKEY[2]
REM_IRIS_SW	33	
EVFYC[0]	34	EVFYC[1]
EVFYC[2]	35	EVFYC[3]
EVFYC[4]	36	EVFYC[5]
EVFYC[6]	37	EVFYC[7]
GND	38	LCEV_SDATA
CLK27EVF	39	EVF_CS
P_DWN_EVF	40	LCEV_SCLK

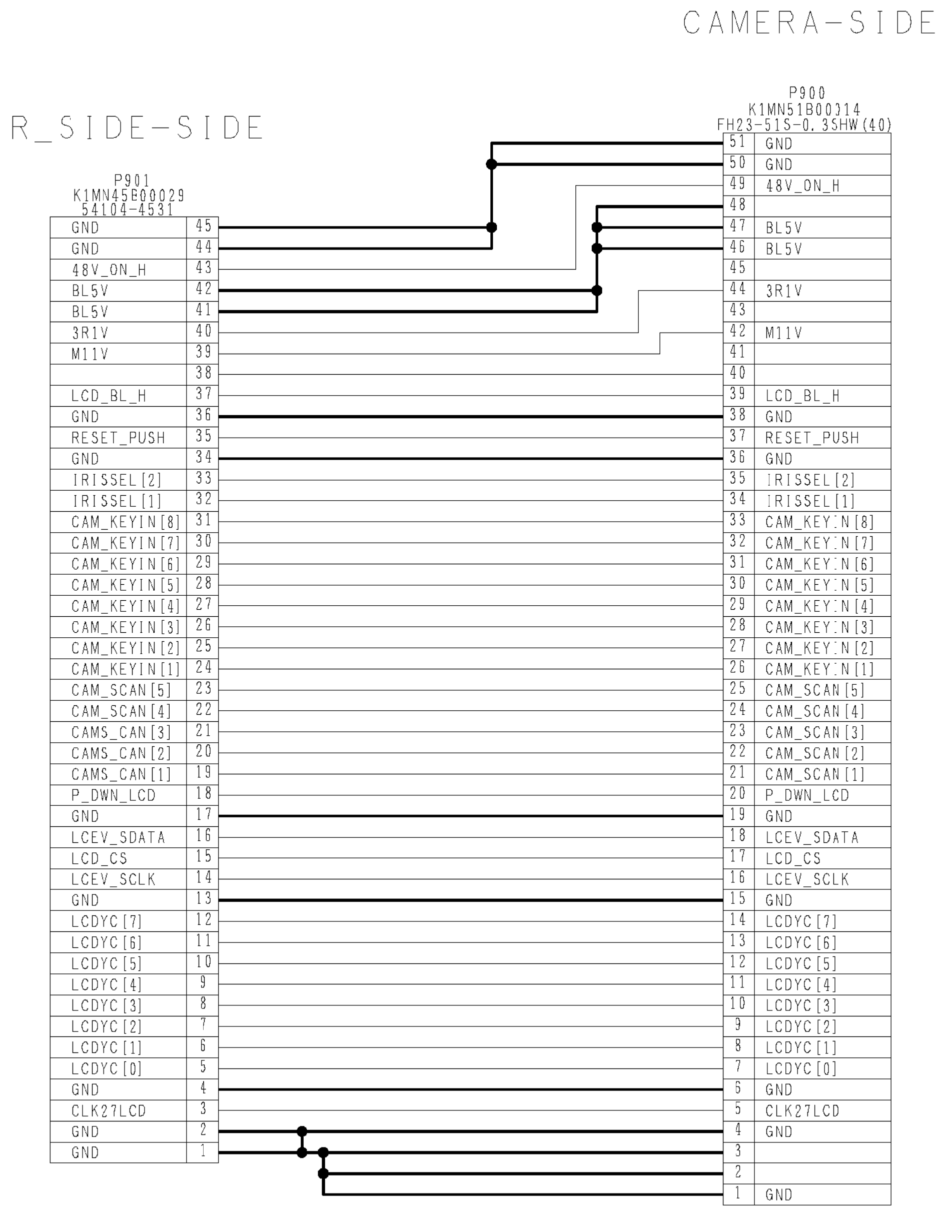
COMPONENT NAME	CAMERA TOP FPC	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP03G96A		KR0A0410(1/1)
		SCM087

A B C D E F G H I J

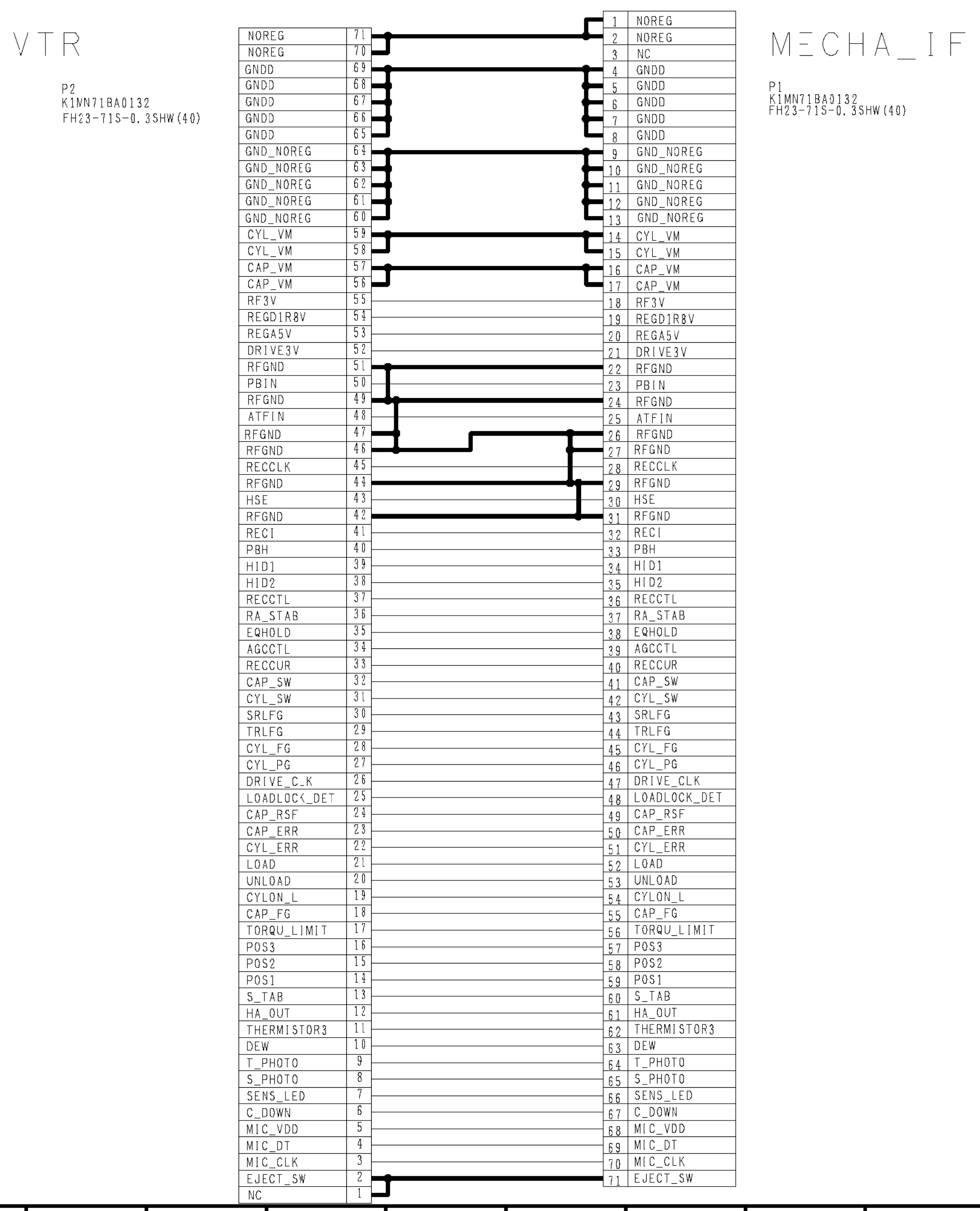
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15


SIDE_JACK1
P101
K1MN45B00033
FH23-45S-0.3SHW(40)
TOP_OP
P100
K1MN45B00033
FH23-45S-0.3SHW(40)
45
GND 44
A_CH2_IO 43
GND 42
A_CH1_IO 41
GND 40
GND 39
V_IO 38
GND 37
Y_IO 36
SPLUG_L 35
C_IO 34
GND 33
D_Y 32
GND 31
D_PB 30
GND 29
D_PR 28
GND 27
DPLUG_L 26
LINE1 25
LINE2 24
LINE3 23
+5V 22
21
48V 20
XLR2_MIC_L 19
XLR2_+48V_H 18
XLR2_-50DB_H 17
GND 16
XLR2 15
GND 14
GND 13
XLR1 12
GND 11
XLR1_MIC_L 10
XLR1_+48V_H 9
XLR1_-50DB_H 8
10V 7
10V 6
5
IROUT 4
3
DGND 2
THERMISTOR1 1
1 GND
2 A_CH2_IO
3 GND
4 A_CH1_IO
5 GND
6 GND
7 V_IO
8 GND
9 Y_IO
10 SPLUG_L
11 C_IO
12 GND
13 D_Y
14 GND
15 D_PB
16 GND
17 D_PR
18 GND
19 DPLUG_L
20 LINE1
21 LINE2
22 LINE3
23 +5V
24
25 48V
26 XLR2_MIC_L
27 XLR2_+48V_H
28 XLR2_-50DB_H
29 GND
30 XLR2
31 GND
32 GND
33 XLR1
34 GND
35 XLR1_MIC_L
36 XLR1_+48V_H
37 XLR1_-50DB_H
38 10V
39 10V
40
41 IROUT
42
43 DGND
44 THERMISTOR1
45

COMPONENT NAME	**TOP OP SIDE JACK1 FPC**	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VWJ1844		KR0A0411(1/1)
		SCM088


CAMERA-SIDE
R_SIDE-SIDE
P901
K1MN45E00029
54104-4531
GND 45
GND 44
48V_ON_H 43
BL5V 42
BL5V 41
3R1V 40
M11V 39
38
LCD_BL_H 37
GND 36
RESET_PUSH 35
GND 34
IRISSEL[2] 33
IRISSEL[1] 32
CAM_KEYIN[8] 31
CAM_KEYIN[7] 30
CAM_KEYIN[6] 29
CAM_KEYIN[5] 28
CAM_KEYIN[4] 27
CAM_KEYIN[3] 26
CAM_KEYIN[2] 25
CAM_KEYIN[1] 24
CAM_SCAN[5] 23
CAM_SCAN[4] 22
CAMS_CAN[3] 21
CAMS_CAN[2] 20
CAMS_CAN[1] 19
P_DWN_LCD 18
GND 17
LCEV_SDATA 16
LCD_CS 15
LCEV_SCLK 14
GND 13
LCDYC[7] 12
LCDYC[6] 11
LCDYC[5] 10
LCDYC[4] 9
LCDYC[3] 8
LCDYC[2] 7
LCDYC[1] 6
LCDYC[0] 5
GND 4
CLK27LCD 3
GND 2
GND 1
P900
K1MN51B00314
FH23-51S-0.3SHW(40)
51 GND
50 GND
49 48V_ON_H
48
47 BL5V
46 BL5V
45
44 3R1V
43
42 M11V
41
40
39 LCD_BL_H
38 GND
37 RESET_PUSH
36 GND
35 IRISSEL[2]
34 IRISSEL[1]
33 CAM_KEY:N[8]
32 CAM_KEY:N[7]
31 CAM_KEY:N[6]
30 CAM_KEY:N[5]
29 CAM_KEY:N[4]
28 CAM_KEY:N[3]
27 CAM_KEY:N[2]
26 CAM_KEY:N[1]
25 CAM_SCAN[5]
24 CAM_SCAN[4]
23 CAM_SCAN[3]
22 CAM_SCAN[2]
21 CAM_SCAN[1]
20 P_DWN_LCD
19 GND
18 LCEV_SDATA
17 LCD_CS
16 LCEV_SCLK
15 GND
14 LCDYC[7]
13 LCDYC[6]
12 LCDYC[5]
11 LCDYC[4]
10 LCDYC[3]
9 LCDYC[2]
8 LCDYC[1]
7 LCDYC[0]
6 GND
5 CLK27LCD
4 GND
3
2
1 GND

COMPONENT NAME	CAMERA R SIDE FPC	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VWJ1845	KR0A0412(1/1)	
	SCM089	


VTR
P2
K1MN71BA0132
FH23-71S-0.3SHW(40)
NOREG 71
NOREG 70
GNDD 69
GNDD 68
GNDD 67
GNDD 66
GNDD 65
GND_NOREG 64
GND_NOREG 63
GND_NOREG 62
GND_NOREG 61
GND_NOREG 60
CYL_VM 59
CYL_VM 58
CAP_VM 57
CAP_VM 56
RF3V 55
REGD1R8V 54
REGA5V 53
DRIVE3V 52
RFGND 51
PBIN 50
RFGND 49
ATFIN 48
RFGND 47
RFGND 46
RECCLK 45
RFGND 44
HSE 43
RFGND 42
RECI 41
PBH 40
HID1 39
HID2 38
RECCTL 37
RA_STAB 36
EQHOLD 35
AGCCTL 34
RECCUR 33
CAP_SW 32
CYL_SW 31
SRLFG 30
TRLFG 29
CYL_FG 28
CYL_PG 27
DRIVE_C_K 26
LOADLOCK_DET 25
CAP_RSF 24
CAP_ERR 23
CYL_ERR 22
LOAD 21
UNLOAD 20
CYLON_L 19
CAP_FG 18
TORQU_LIMIT 17
POS3 16
POS2 15
POS1 14
S_TAB 13
HA_OUT 12
THERMISTOR3 11
DEW 10
T_PHOTO 9
S_PHOTO 8
SENS_LED 7
C_DOWN 6
MIC_VDD 5
MIC_DT 4
MIC_CLK 3
EJECT_SW 2
NC 1
MECHA_IF
P1
K1MN71BA0132
FH23-71S-0.3SHW(40)
1 NOREG
2 NOREG
3 NC
4 GNDD
5 GNDD
6 GNDD
7 GNDD
8 GNDD
9 GND_NOREG
10 GND_NOREG
11 GND_NOREG
12 GND_NOREG
13 GND_NOREG
14 CYL_VM
15 CYL_VM
16 CAP_VM
17 CAP_VM
18 RF3V
19 REGD1R8V
20 REGA5V
21 DRIVE3V
22 RFGND
23 PBIN
24 RFGND
25 ATFIN
26 RFGND
27 RFGND
28 RECCLK
29 RFGND
30 HSE
31 RFGND
32 RECI
33 PBH
34 HID1
35 HID2
36 RECCTL
37 RA_STAB
38 EQHOLD
39 AGCCTL
40 RECCUR
41 CAP_SW
42 CYL_SW
43 SRLFG
44 TRLFG
45 CYL_FG
46 CYL_PG
47 DRIVE_CLK
48 LOADLOCK_DET
49 CAP_RSF
50 CAP_ERR
51 CYL_ERR
52 LOAD
53 UNLOAD
54 CYLON_L
55 CAP_FG
56 TORQU_LIMIT
57 POS3
58 POS2
59 POS1
60 S_TAB
61 HA_OUT
62 THERMISTOR3
63 DEW
64 T_PHOTO
65 S_PHOTO
66 SENS_LED
67 C_DOWN
68 MIC_VDD
69 MIC_DT
70 MIC_CLK
71 EJECT_SW

COMPONENT NAME	VTR MECHA IF FPC	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VWJ1874	KR0A0413(1/1)	
	SCM090	

SECTION 7

CIRCUIT BOARD DIAGRAMS

プリント基板図

MODEL: AG-HVX200/P/AN/E/MC/HVX202EN

NOTE:
BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST SECTION.

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

⚠ 警告

⚠の部品は、安全上重要な部品です。
交換するときは、安全及び性能維持のため、必ず指定の部品をご使用ください。
部品は難燃性や耐電圧など、安全上の特性を持ったものとなっていますので、部品交換は、使用されているものと同じ特性の部品をご使用ください。

部品ご注文の際には必ず部品リストに記載の品番でご注文ください。

⚠ 警告	
⚠ 感電注意	AC100Vの加わっている活電部(充電部、活電部)に直接触れないでください。 ☞ 感電ややけどの可能性があります。

① **⚠ 警 告** ⚠ 印の部品は安全上重要な部品です。交換するときは、安全上および性能維持のため必ず指定の部品をご使用ください。
② ▭ 内は充電部です。AC 100Vが加わっておりますので点検、修理のときは感電しないよう充分ご注意ください。
③ 部品交換時には、電源プラグをぬいてから行ってください。
④ 一次側（充電部）の電圧・波形は、一次側アースを基準に測定してください。
⑤ 部品品番は、部品価格表で確認の上交換ください。

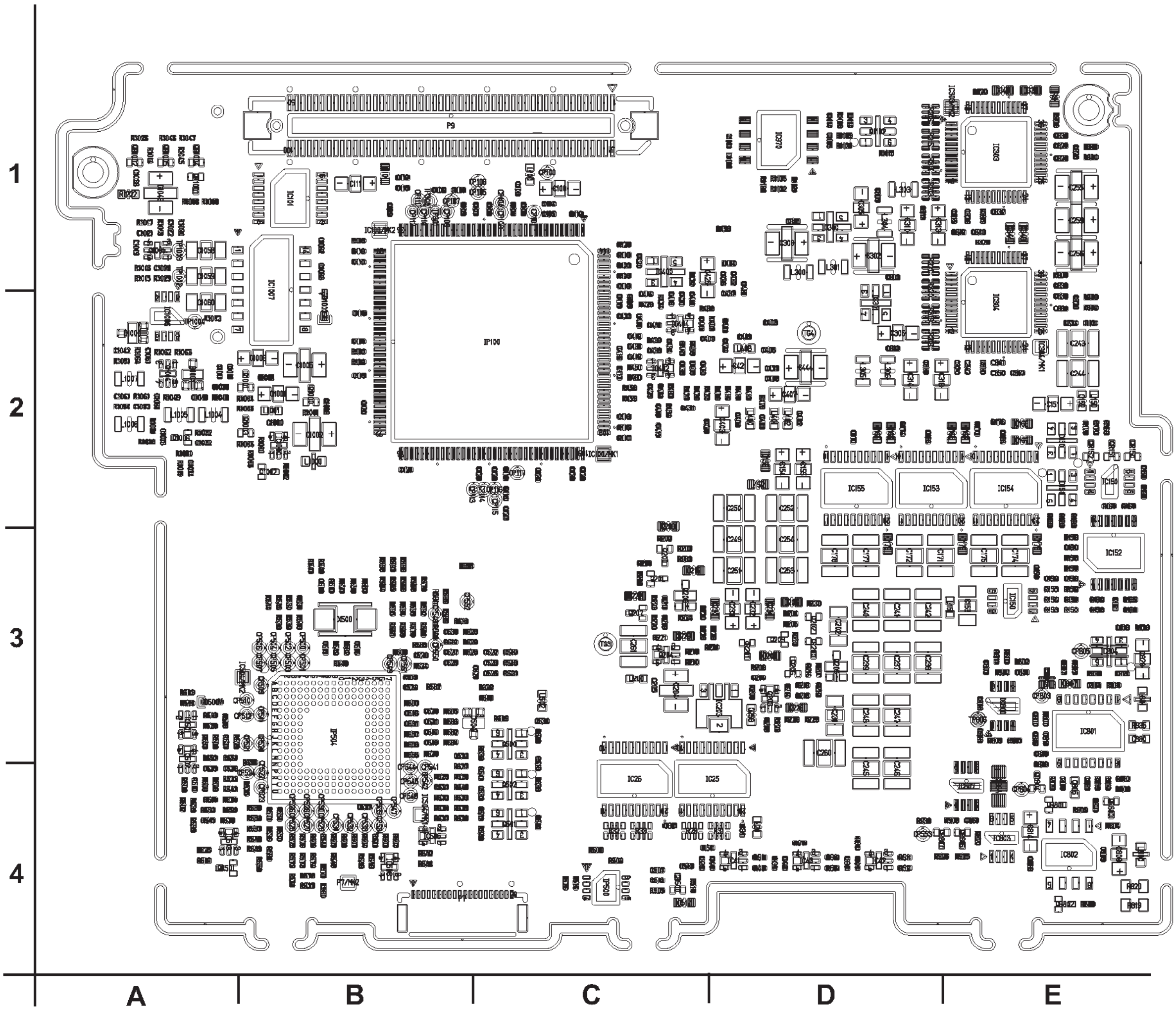
CONTENTS

CAMERA C.B.A. (FOIL SIDE) CBA-1
CAMERA C.B.A. (COMPONENT SIDE) CBA-2
CODEC C.B.A. (FOIL SIDE) CBA-3
CODEC C.B.A. (COMPONENT SIDE) CBA-4
VTR C.B.A. (FOIL SIDE) CBA-5
VTR C.B.A. (COMPONENT SIDE) CBA-6
POWER C.B.A. (FOIL SIDE) CBA-7
POWER C.B.A. (COMPONENT SIDE) CBA-8

CAMERA C.B.A. (FOIL SIDE)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC25	D4	IC301	D2	IC804	E3	Q204	C3	Q1014	A2	QR807	E4
IC26	C4	IC303	E1	IC807	E4	Q205	D3	Q1102	D1	QR1001	A1
IC41	D4	IC304	E2	IC970	D1	Q206	D3	QR150	E2	QR1002	A1
IC42	D4	IC400	C1	IC1000	B2	Q207	C3	QR151	E2	QR1004	A1
IC43	D4	IC402	C2	IC1006	A2	Q208	C3	QR152	E2	QR1005	A1
IC100	C2	IC404	C2	IC1007	B2	Q209	D3	QR200	D3	TP300	B1
IC101	B1	IC501	A3	IP100	C2	Q500	C3	QR201	D3	TP301	B1
IC150	E3	IC502	A3	IP500	C4	Q501	C4	QR500	C4	TP806	E3
IC151	E2	IC503	A4	IP504	B3	Q502	C4	QR501	A4	TP1002	A1
IC152	E3	IC505	B4	P7	B4	Q1000	B2	QR800	E4	TP1003	A1
IC153	D2	IC506	B4	P9	B1	Q1001	B2	QR801	E4	TP1004	A2
IC154	E2	IC800	E3	Q200	C3	Q1002	B2	QR802	E4	X500	B3
IC155	D2	IC801	E3	Q201	C3	Q1003	B2	QR803	E3		
IC203	D3	IC802	E4	Q202	D3	Q1005	A1	QR804	E4		
IC300	D1	IC803	E3	Q203	D3	Q1006	A2	QR806	E4		

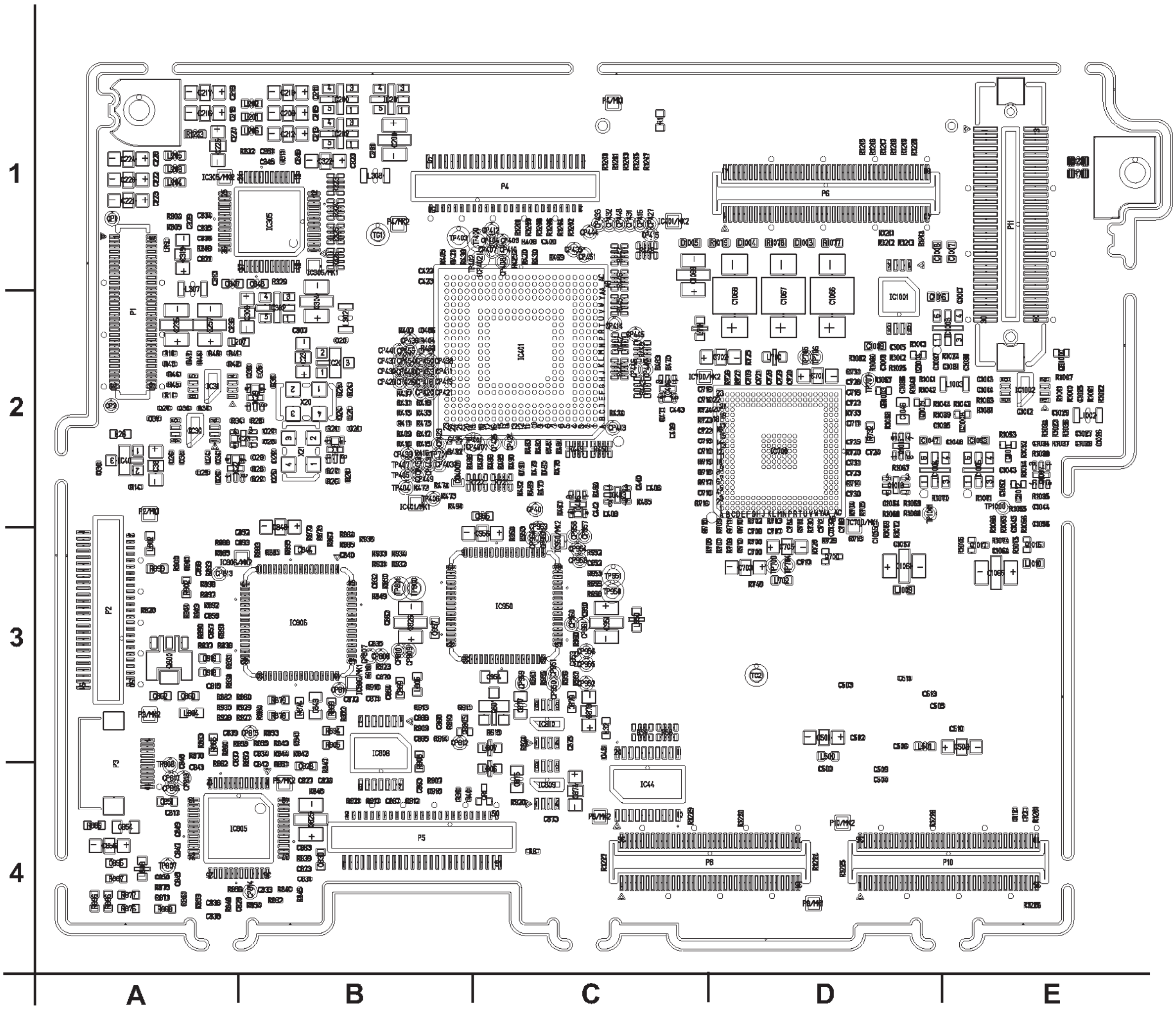


CBA-1

CAMERA C.B.A. (COMPONENT SIDE)

COMPONENT SIDE

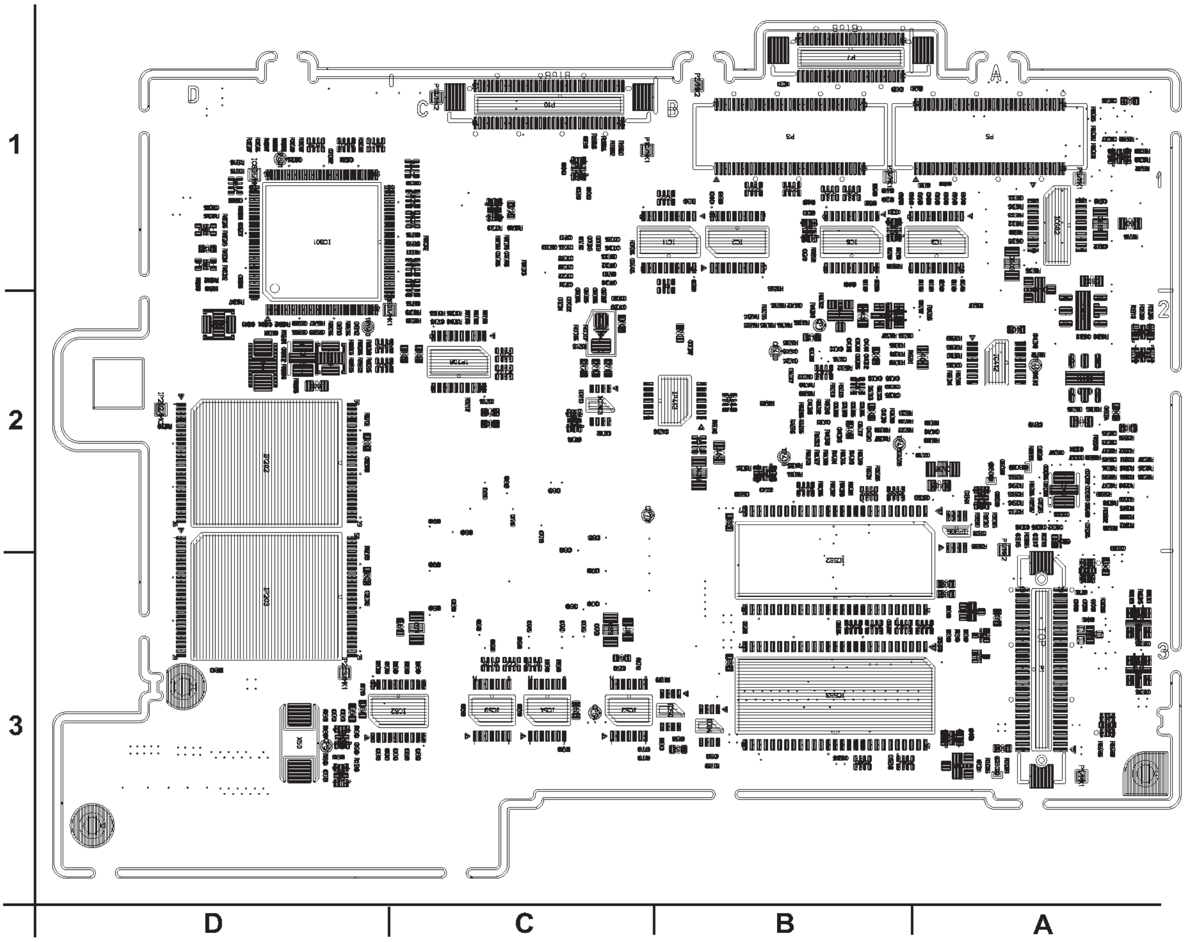
REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC20	B2	IC401	C2	IC1004	D2	Q1004	D2	TP400	C1	TP800	B3
IC21	B2	IC403	C2	IC1005	E2	Q1007	E2	TP401	B2	TP801	B3
IC22	B2	IC405	C2	P1	A2	Q1008	E2	TP402	C1	TP807	A4
IC23	B2	IC406	C2	P2	A3	Q1009	D2	TP403	B1	TP808	A4
IC29	B2	IC700	D2	P3	A4	Q1011	E2	TP404	B2	TP950	C3
IC30	A2	IC805	B4	P4	C1	Q1012	E2	TP405	B2	TP951	C3
IC31	A2	IC806	B3	P5	B4	Q1013	D2	TP406	B2	TP1000	E2
IC40	A2	IC808	B3	P6	D1	Q1015	D2	TP407	B2	TP1001	D2
IC44	C4	IC809	C4	P8	D4	Q1016	E3	TP700	D3	X20	B2
IC200	B1	IC810	C3	P10	E4	Q1017	E3	TP701	B2	X21	B2
IC201	B1	IC950	C3	P11	E1	QR1	C4	TP704	D3		
IC202	B1	IC1001	D2	Q700	D3	QR805	B3	TP705	D2		
IC302	B2	IC1002	E2	Q800	A3	QR1000	E2	TP706	D2		
IC305	B1	IC1003	E2	Q801	C3	QR1003	D2	TP707	D2		



CODEC C.B.A. (FOIL SIDE)

FOIL SIDE

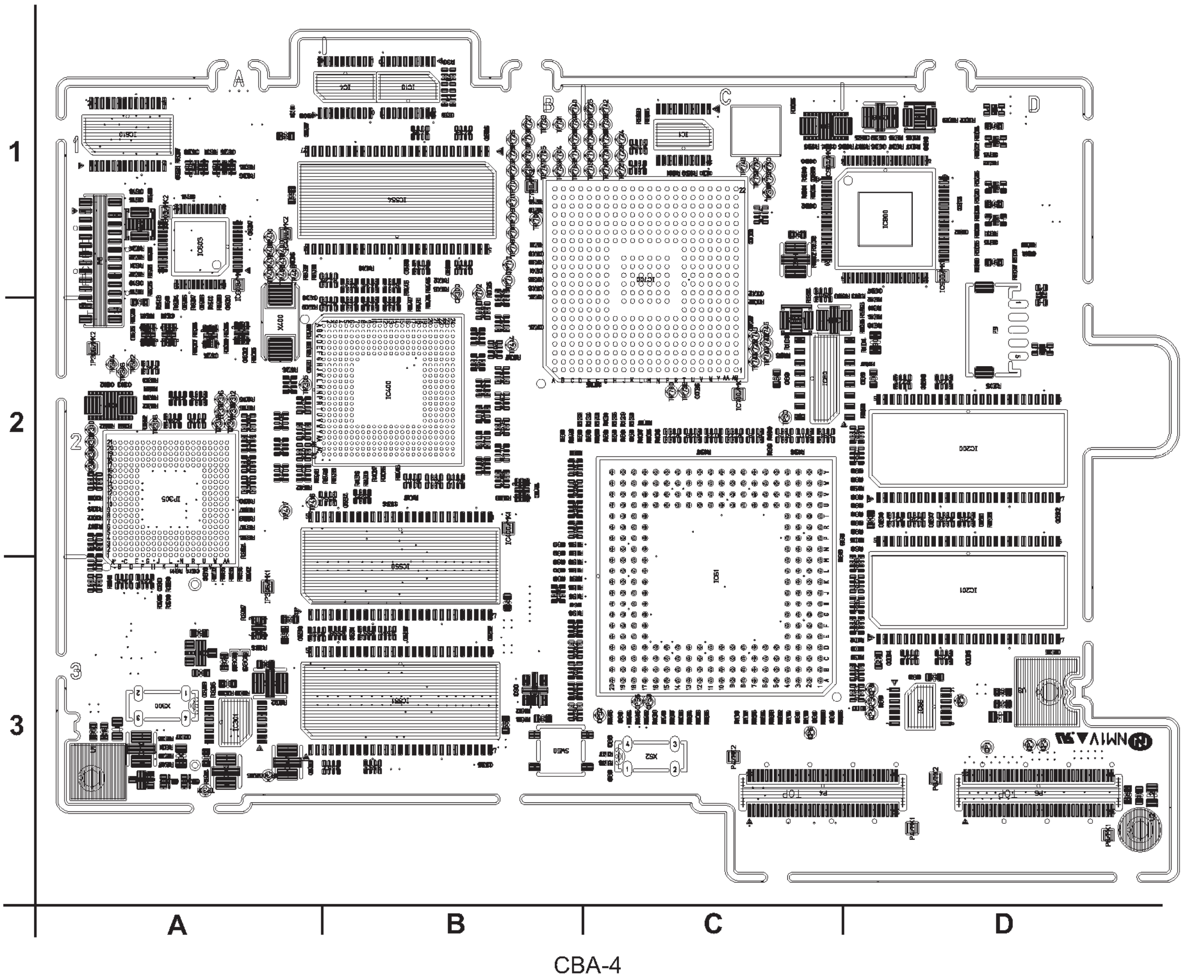
REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2	B1	IC52	C3	IC307	A2	IC703	C2	P3	B1	QR302	A2
IC3	A1	IC53	C3	IC409	B2	IC705	C2	P5	A1	TP405	A2
IC5	B1	IC54	C3	IC411	A2	IC710	C1	P7	B1	TP415	B2
IC6	B1	IC55	D3	IC412	A2	IC801	D1	P10	C1	TP418	B2
IC7	B1	IC62	C3	IC414	B2	IP202	D2	Q2	A3	TP800	D2
IC9	A3	IC64	B3	IC552	B3	IP203	D3	Q3	A3	TP801	D1
IC11	B1	IC300	A3	IC553	B3	IP306	A2	Q302	A2	X50	D3
IC12	C1	IC302	A3	IC600	A2	IP413	B2	Q303	A2	X800	D2
IC50	B3	IC303	A3	IC602	A1	IP706	C2	QR1	A3		
IC51	D3	IC304	A3	IC605	A1	P1	A3	QR2	A3		



CODEC C.B.A. (COMPONENT SIDE)

COMPONENT SIDE

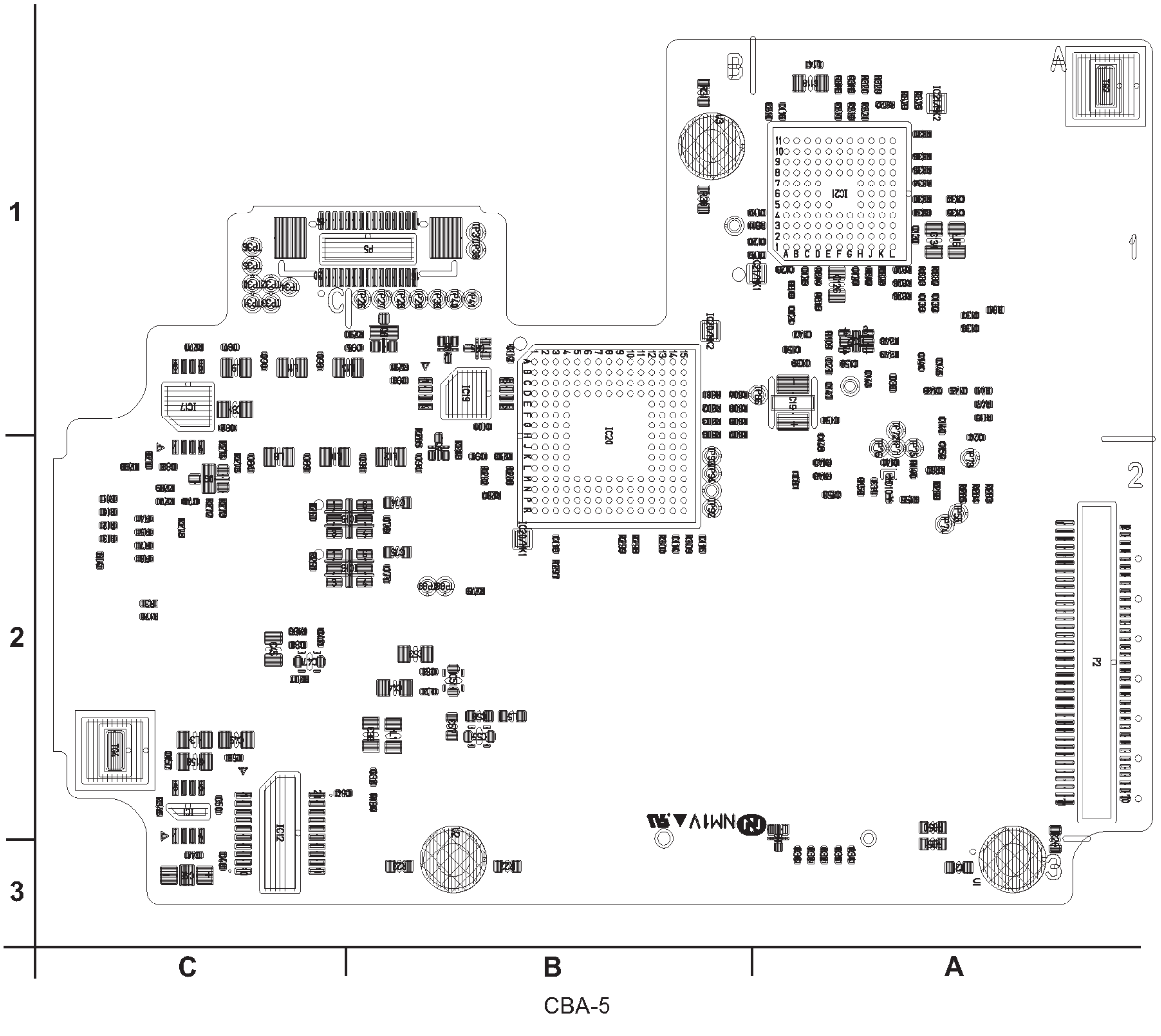
REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	C1	IC609	A1	TP305	A2	TP414	B2	TP718	B1	TP739	C1
IC4	B1	IC610	A1	TP306	A2	TP416	A2	TP719	B1	TP740	B1
IC10	B1	IC700	C1	TP307	A2	TP417	A2	TP720	B1	TP741	B1
IC56	D3	IC900	D3	TP308	A2	TP700	C2	TP721	C1	TP742	C1
IC60	C2	IP305	A2	TP309	A2	TP701	B1	TP722	C1	TP743	C2
IC61	C3	P4	C3	TP310	A2	TP702	B1	TP723	C1	TP744	C2
IC66	B3	P6	D3	TP311	A2	TP703	B1	TP724	C1	TP745	C2
IC200	D2	P8	A1	TP312	A2	TP704	B1	TP725	B1	TP746	C2
IC201	D3	P9	D3	TP313	A2	TP705	B1	TP726	B1	TP747	C2
IC301	A3	Q300	A3	TP314	A2	TP706	B1	TP727	B1	TP748	C1
IC400	B2	Q301	A3	TP315	A2	TP707	B1	TP728	C2	TP750	C1
IC401	B2	Q305	A3	TP316	A2	TP708	B1	TP729	B1	TP751	C1
IC550	B3	QR300	A3	TP317	C1	TP709	B1	TP730	C1	TP752	C1
IC551	B3	QR301	A3	TP406	A1	TP710	B1	TP731	B1	TP753	C1
IC554	B1	SW50	B3	TP407	A1	TP711	B1	TP732	C1	X300	A3
IC601	A2	TP50	C2	TP408	A1	TP712	C1	TP733	B1	X301	A2
IC603	A1	TP300	A3	TP409	A1	TP713	B1	TP734	B1	X400	A2
IC604	A2	TP301	A3	TP410	A1	TP714	B1	TP735	B1	X52	C3
IC606	A2	TP302	A2	TP411	A1	TP715	C1	TP736	C2	X900	C1
IC607	A1	TP303	A2	TP412	A1	TP716	C1	TP737	C1		
IC608	A2	TP304	A2	TP413	A1	TP717	B1	TP738	C1		



VTR C.B.A. (FOIL SIDE)

FOIL SIDE

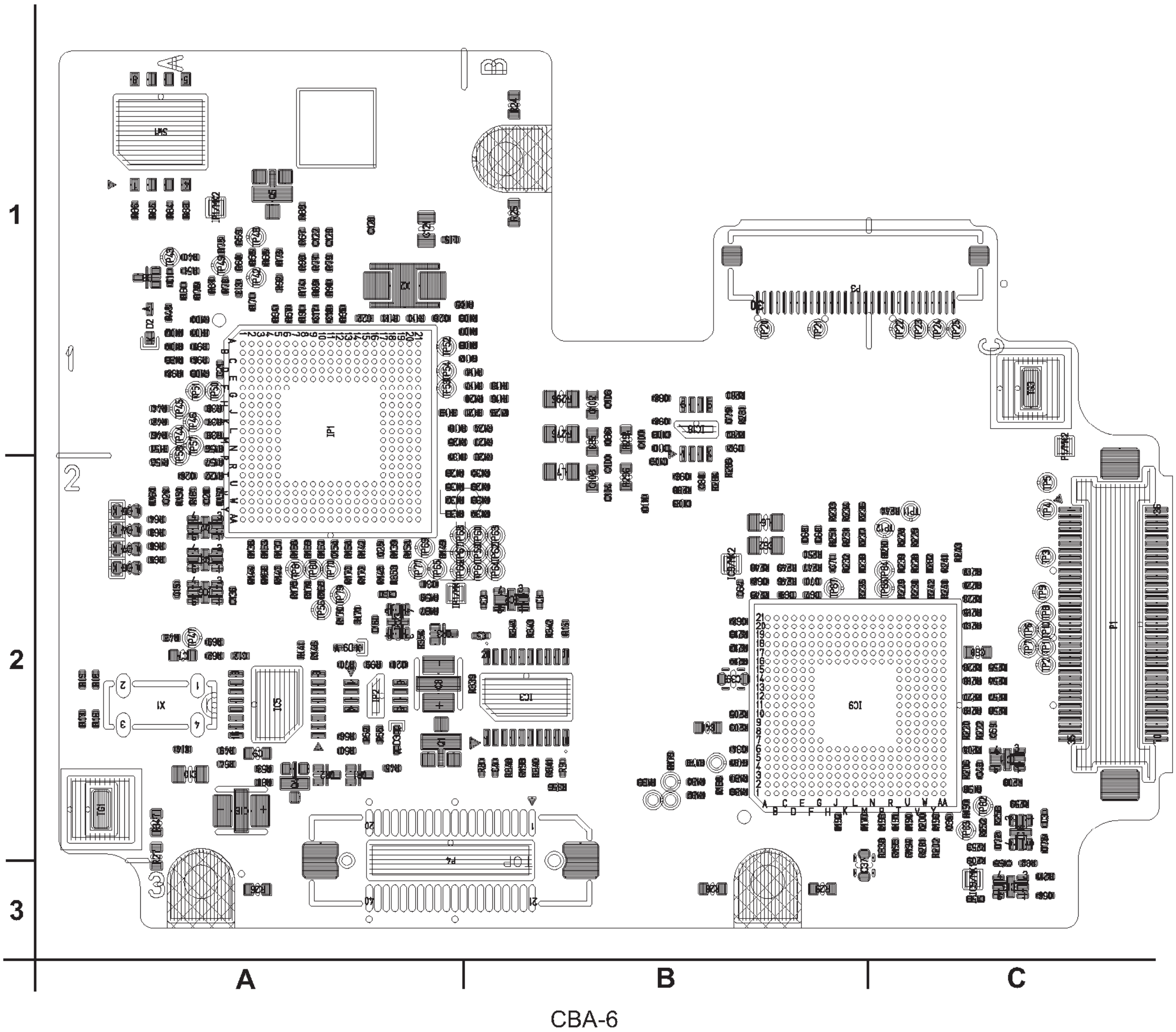
REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	C2	IC22	A1	TP26	B1	TP34	C1	TP55	A2	TP88	B2
IC12	C2	P2	A2	TP27	B1	TP35	C1	TP71	A2	TP89	B2
IC15	B2	P5	B1	TP28	B1	TP36	C1	TP72	A1	TP92	B1
IC16	B2	Q6	C2	TP29	B1	TP37	B1	TP73	A2	TP93	B1
IC17	C1	Q7	B2	TP30	C1	TP38	B1	TP74	A2	TP94	B1
IC19	B1	Q8	B1	TP31	C1	TP39	B1	TP75	A2		
IC20	B1	QR4	B1	TP32	C1	TP40	B1	TP76	A2		
IC21	A1	QR5	B1	TP33	C1	TP41	B1	TP86	A1		



VTR C.B.A. (COMPONENT SIDE)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2	B2	P4	A3	TP5	C2	TP42	A1	TP57	A1	TP77	A2
IC3	B2	Q1	A2	TP6	C2	TP43	A1	TP58	A1	TP79	A2
IC5	A2	Q2	A2	TP7	C2	TP44	A1	TP59	B2	TP80	A2
IC6	A2	Q3	A2	TP8	C2	TP45	A1	TP60	B2	TP81	A2
IC9	B2	Q4	A2	TP9	C2	TP46	A1	TP61	B2	TP82	C2
IC11	C2	Q5	A1	TP10	C2	TP47	A2	TP62	B2	TP83	C2
IC13	C3	QR1	A2	TP11	C2	TP48	A1	TP63	B2	TP84	C2
IC14	C2	QR2	A2	TP12	C2	TP49	A1	TP64	B2	TP85	C2
IC18	B1	QR3	A2	TP20	B1	TP50	A1	TP65	A2	TP87	B2
IC23	A2	SW1	A1	TP21	B1	TP51	A1	TP66	A2	X1	A2
IP1	A1	TP1	C2	TP22	C1	TP52	A1	TP67	A2	X2	A1
IP2	A2	TP2	C2	TP23	C1	TP53	A1	TP68	A2		
P1	C2	TP3	C2	TP24	C1	TP54	A1	TP69	A2		
P3	B1	TP4	C2	TP25	C1	TP56	A2	TP70	A2		



POWER C.B.A. (FOIL SIDE)

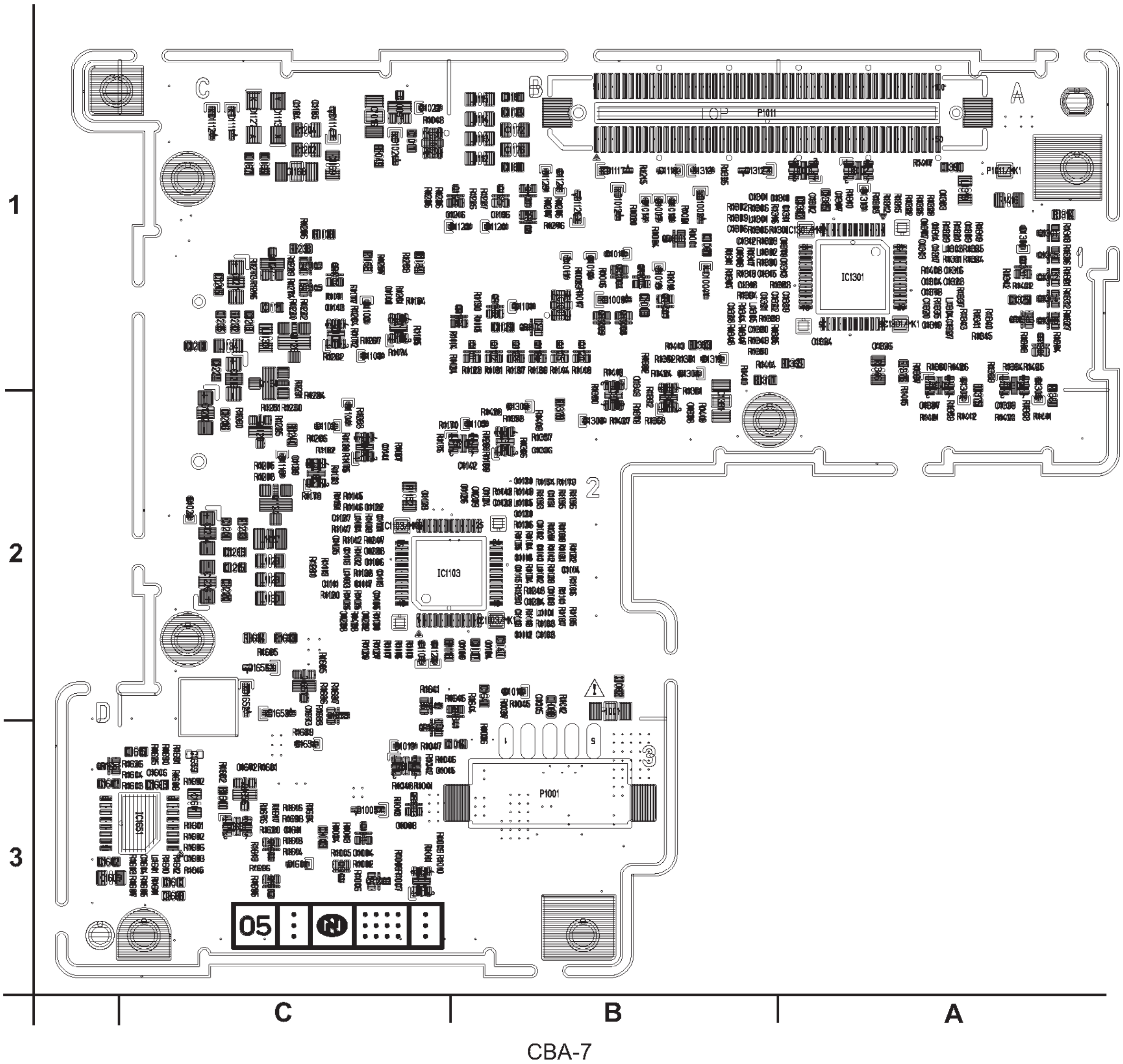
FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
F1001	B2	Q1011	C3	Q1124	C2	Q1305	A1	Q1658	C3	QR1103	B1
IC1001	B1	Q1101	B1	Q1125	B1	Q1306	B2	Q1659	C3	QR1104	C1
IC1002	C1	Q1102	B1	Q1126	C1	Q1307	A1	QR1001	B1	QR1105	C1
IC1103	B2	Q1103	B1	Q1127	C1	Q1308	B2	QR1002	C3	QR1107	C1
IC1301	A1	Q1104	B1	Q1128	C2	Q1309	A1	QR1003	C3	QR1108	B1
IC1651	C3	Q1105	B1	Q1129	B1	Q1311	B2	QR1004	B1	QR1301	A1
P1001	B3	Q1106	C2	Q1130	C1	Q1331	A1	QR1005	B1	QR1303	A1
P1011	B1	Q1107	C1	Q1131	B1	Q1601	C3	QR1007	B1	QR1641	B2
Q1001	C3	Q1108	C2	Q1301	A1	Q1602	C3	QR1008	B1	QR1642	C3
Q1002	C3	Q1109	B2	Q1302	A1	Q1651	C3	QR1009	B1	QR1651	C3
Q1008	C3	Q1110	C1	Q1303	A1	Q1656	C3	QR1101	B1		
Q1009	C1	Q1120	B1	Q1304	A1	Q1657	C3	QR1102	B1		

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

⚠ 警 告

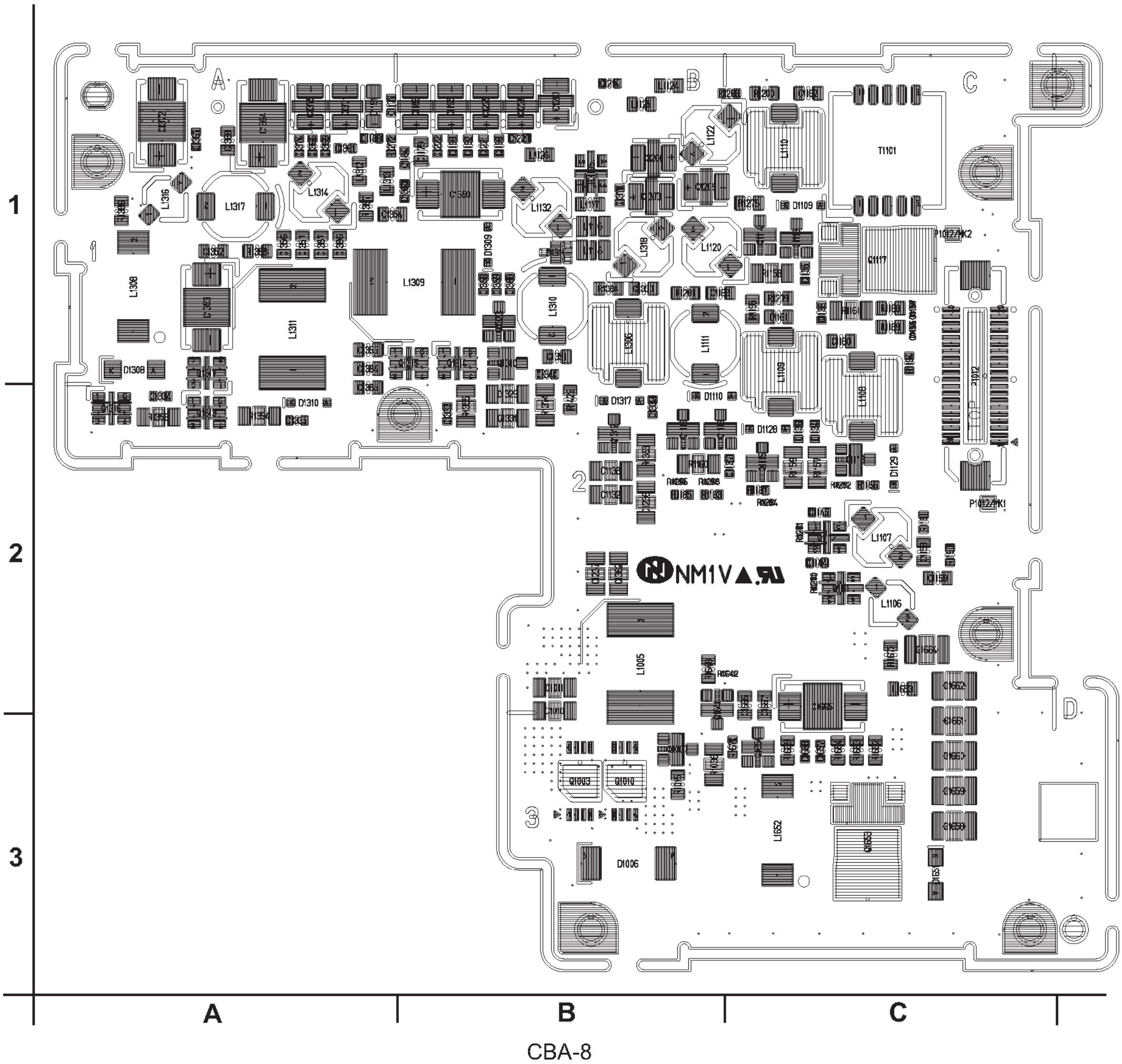
⚠ 印の部品は安全上重要な部品です。
交換するときは、安全上および性能維持のため
必ず指定の部品をご使用ください。



POWER C.B.A. (COMPONENT SIDE)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1105	B1	Q1111	C2	Q1116	B2	Q1312	B2	Q1317	A1	T1101	C1
P1012	C1	Q1112	C2	Q1117	C1	Q1313	A2	Q1323	B1		
Q1003	B3	Q1113	C2	Q1118	C1	Q1314	B1	Q1641	B2		
Q1007	B3	Q1114	C1	Q1119	B2	Q1315	B1	Q1653	C3		
Q1010	B3	Q1115	C2	Q1310	B1	Q1316	A2	Q1654	C3		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A
B
C
T1101
L1309
L1311
L1317
L1005
L1652
D1006
NM1V

SECTION 8

EXPLODED VIEWS & REPLACEMENT PARTS LIST

MODEL: AG-HVX200P,E,MC,AN,202EN

Note:

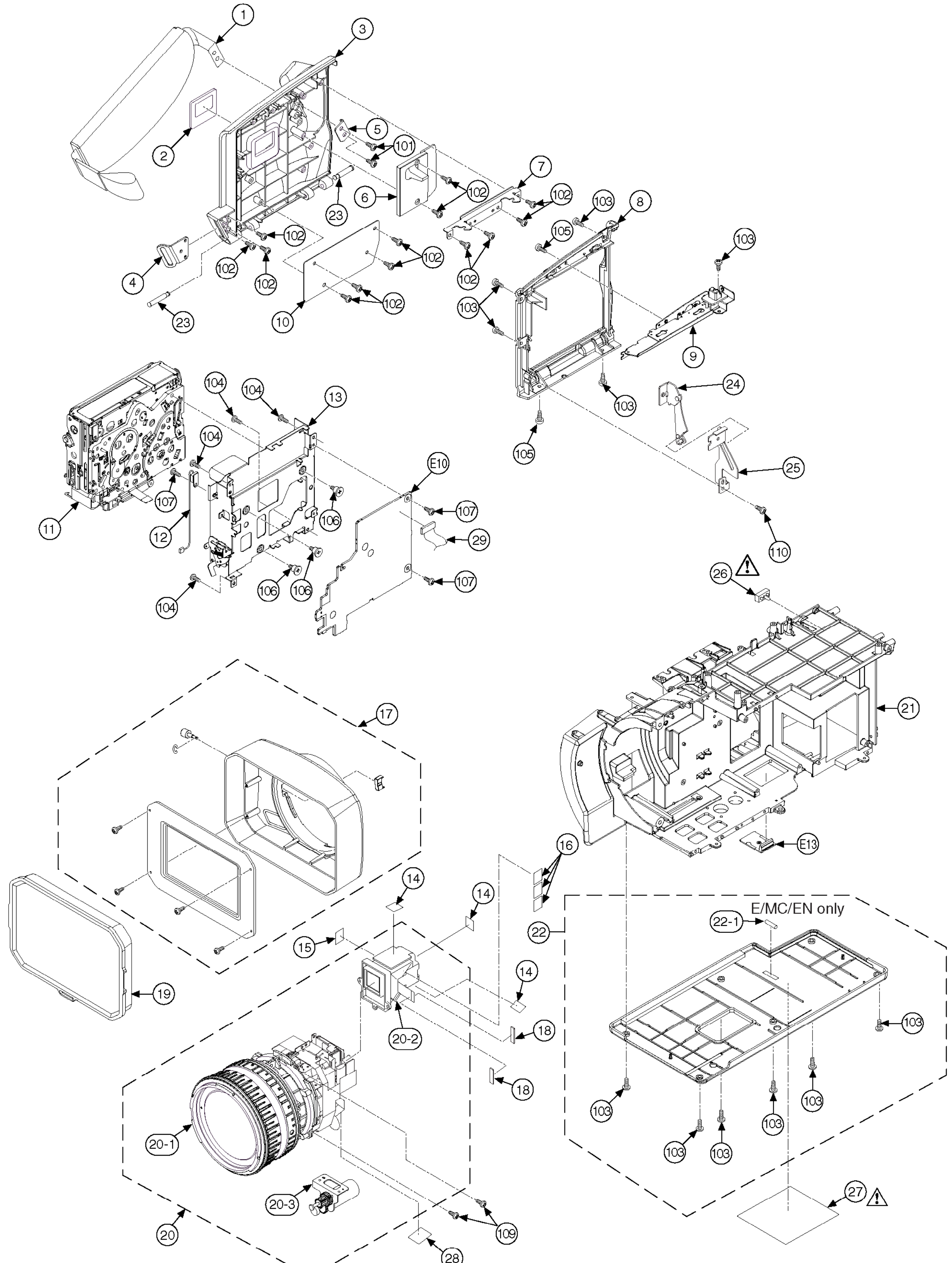
1. *Be sure to make your orders of replacement parts according to this list.
2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μF), P=μμF.
3. The P.C. Board unit marked with "■" shown below the main assembled parts.
4. The parts marked with Ⓔ on the exploded view show the electric parts.
5. IMPORTANT SAFETY NOTICE
   Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
6. The marking (RTL) indicates the retention time is limited for this item.
   After the discontinuation of this assembly in production, it will no longer be available.
7. "M" in Remark column indicates needed in the periodical maintenance.

CONTENTS

FRAME & CASING PARTS ASSEMBLY (1) MPL-1
FRAME & CASING PARTS ASSEMBLY (2) MPL-3
HANDLE EVF PARTS ASSEMBLY MPL-5
LCD PARTS ASSEMBLY MPL-7
PACKING PARTS MPL-9
ELECTRICAL REPLACEMENT PARTS LIST EPL-1

FRAME & CASING PARTS ASSEMBLY (1)

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.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E10
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110
26 ⚠
21
17
16
E13
14
14
15
22
E/MC/EN only
22-1
19
14
20-2
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103
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27 ⚠
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28

FRAME & CASING PARTS ASSEMBLY(1)

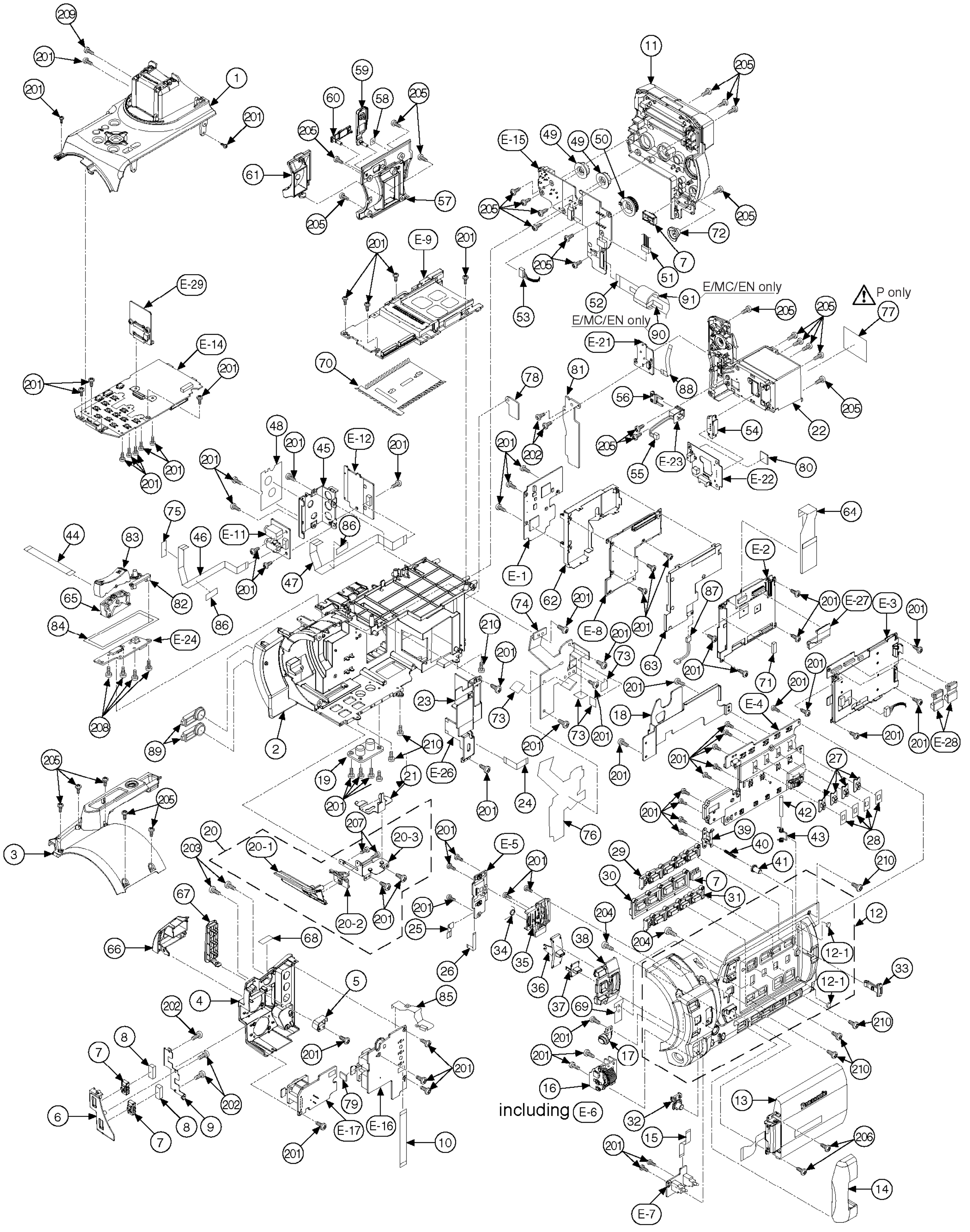
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	VFB0215	GLIP BELT	1	
2	VGH4860	CASSETTE COVER WINDOW	1	
3	VGP6148	GLIP COVER	1	
4	VMP7325	GLIP BELT ANGLE (FRONT)	1	
5	VMP8331	BELT FIX ANGLE	1	
6	VGQ8611	GARAGE COVER OSAE	1	
7	VMP8473	CASSETTE LOCK ANGLE	1	
8	VGP6149	GRIP FRAME	1	
9	VXA8179	LOCK U	1	
10	VGF1043	GRIP SHEET	1	
11	VXY1903Z1	MECHA U	1	
12	L2BB00000003	DEW SENSOR	1	
13	VXK1835	MECHA FRAME U	1	
14	VSC5831	CERAMIC SHEET CDS	3	
15	VSC5832	CERAMIC SHEET PRISM	1	
16	VSC5830	HEAT RADIATION SHEET	3	
17	VGQ8819/S	LENS HOOD	1	
18	J0ZZZ0000053	FILTER	2	
19	VGQ8820	HOOD CAP	1	
20	VXW0770/S	CAMERA LENS U	1	
20-1	VXW0769	LENS U	1	
20-2	VXQ1401/S	PRISM U	1	
20-3	L6DABBKD0001	ZOOM MOTOR U	1	
21	VKM6880	MAIN FRAME	1	
22	VYK1U98	BOTTOM COVER U	1	FOR AG-HVX200P/AN
22	VYK1W32	BOTTOM COVER U	1	FOR AG-HVX200E/MC/202EN
22-1	VMT1567	SOFT HIGH SHIELD GASKET	1	FOR AG-HVX200E/MC/202EN
23	VMS7653	CASSETTE COVER SHAFT	2	
24	VXL3325	LINK ARM U	1	
25	VMA0U09	LINK GUIDE	1	
⚠ 26	VMT1549	GASKET	1	
⚠ 27	VQL1J48	CAUTION LABEL	1	FOR AG-HVX200P
⚠ 27	VQL1E83	CAUTION LABEL	1	FOR AG-HVX200E/MC/202EN
⚠ 27	VQL1K66	CAUTION LABEL	1	FOR AG-HVX200AN
28	VMT1762	LENS FPC COVER SHEET	1	
29	VWJ1874	VTR MECHA FPC	1	
101	XTB26+6GFJK	SCREW	2	
102	XQN2+BJ5FJK	SCREW	13	
103	XQN2+B4FJK	SCREW	11	
104	XQN2+B4FN	SCREW	4	
105	XQN2+B4FJK	SCREW	2	
106	VHD1133	SCREW	3	
107	XQN2+B4FN	SCREW	3	
109	XYN3+F6FJ	SCREW	2	
110	XQN2+BJ5FJK	SCREW	1	
E10	VEP03G91A	MECHA IF C.B.A.	1	
E13	VEP001N3A	BOTTOM CON C.B.A.	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks

FRAME & CASING PARTS ASSEMBLY (2)

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.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Panasonic

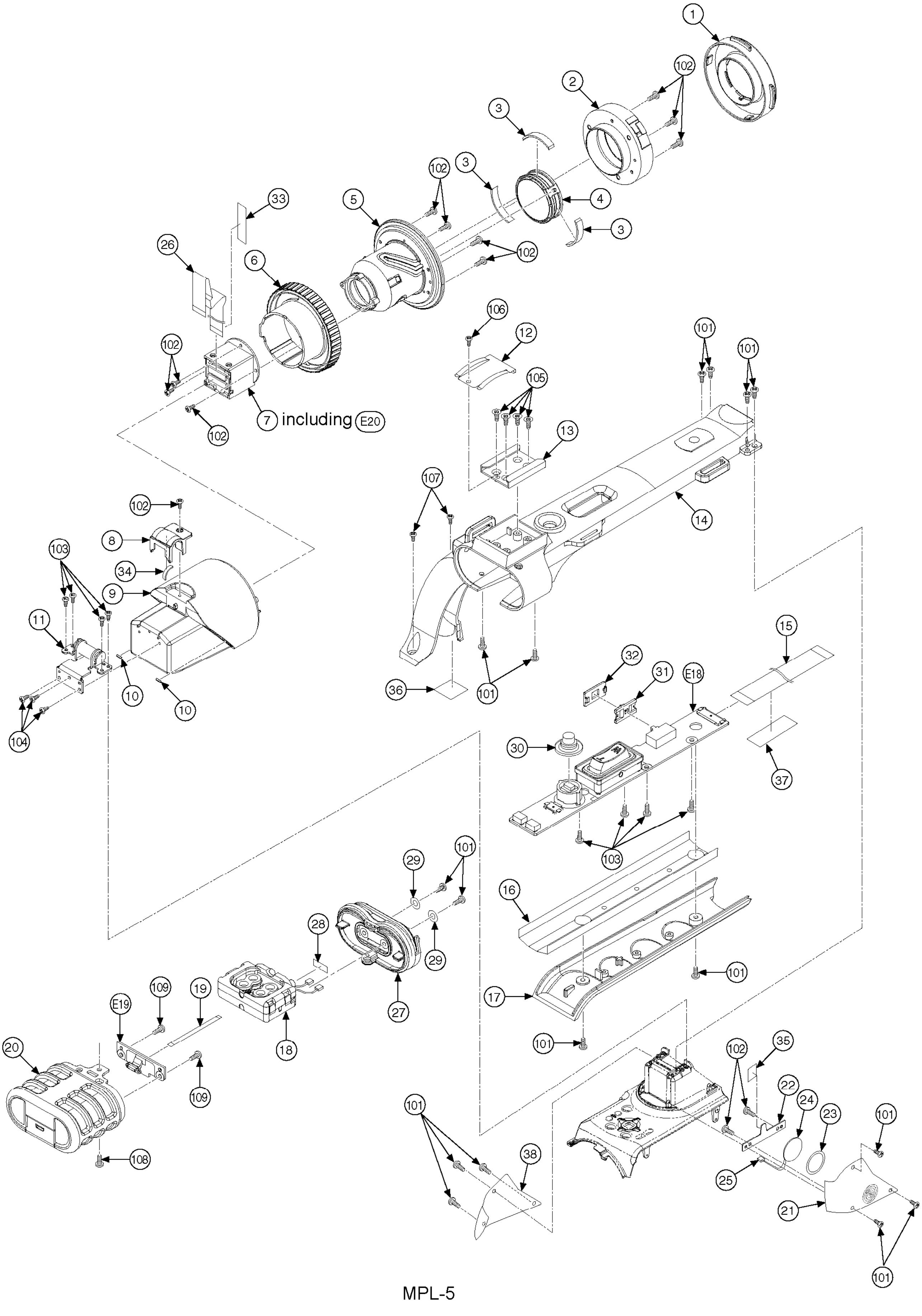
FRAME & CASING PARTS ASSEMBLY(2)

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYK1U58	TOP PANEL U	1	
2	VKM6880	MAIN FRAME	1	
3	VYK1U94	ZOOM SW CASE U	1	
4	VGM2152	JACK FRAME	1	
5	VKW3303	AWB SENSOR WINDOW	1	
6	VGQ8838	AUDIO SW COVER	1	
7	VGU0A01	MODE SW KNOB	4	
8	VMT1761	FRONT MIC SW SHEET	2	
9	VMP8589	AUDIO SW PLATE	1	
10	VWJ12H2040L0	12PIN40MM FFC	1	
11	VYK1Y37	BACK PANEL 1U	1	
12	VYK1U66	SIDE CASE R 1U	1	
12-1	VMG1286	CUSHION RUBBER	2	
13	VYK1U47	LCD U	1	
14	VGQ8773	LCD HINGE COVER	1	
15	VWJ06H2033L0	6PIN33MM FFC	1	
16	VEK0J73	IRIS DIAL U	1	
17	VGU9929	AWB BUTTON	1	
18	VSC5806	SIDE R HEAT SINK	1	
19	VMP8615	TRIPOD FRAME	1	
20	VYQ3733	CLUTCH U	1	
20-1	VGU9936	CLUTCH KNOB	1	
20-2	VGP6167	CLUTCH PANEL	1	
20-3	VMP8557	CLUTCH FRAME	1	
21	VMP8558	CLUTCH ARM ANGLE	1	
22	VYK1Y38	BATTERY CASE 1U	1	
23	VSC5801	CCD HEAT SINK	1	
24	VWJ10H2030L0	10PIN30MM FFC	1	
25	VWJ12H2050L0	12PIN50MM FFC	1	
26	VWJ06H2045L0	6PIN45MM FFC	1	
27	VGU9894	SLIDE KNOB	4	
28	VGH4857	SLIDE KNOB SHEET	4	
29	VGU9931	LCD BUTTON B	1	
30	VGU9935	COUNTER BUTTON	1	
31	VGU9930	LCD BUTTON A	1	
32	VGU9937	EVF DTL BUTTON	1	
33	VGU9197	MONITOR LOCK KNOB	1	
34	VMB4017	FOCUS SPRING	1	
35	VGQ8772	CAM OP BACKUP	1	
36	VGU9928	ND KNOB	1	
37	VGU9926	FOCUS KNOB	1	
38	VGU9927	CAM OP BUTTON	1	
39	VMP7331	OPENER HOLDER ANGLE	1	
40	VMB3996	POP UP SPRING	1	
41	VGQ6901	MONITOR KNOB	1	
42	VMS7187	LCD LOCK SHAFT	1	
43	VMB3659	MONITOR OPENER SPRING	1	
44	VWJ06H2033L0	6PIN33MM FFC	1	
45	VMP8552	JACK ANGLE	1	
46	VWJ12H2120L0	12PIN120MM FFC	1	
47	VWJ16H2145L0	16PIN145MM FFC	1	
48	VGH4874	JACK PLATE	1	
49	VGU9721	AUDIO VR KNOB	2	
50	VYQ3547	MODE DIAL U P.C.BOARD	1	
51	VEE1C06	AUDIO CABLE	1	
52	VWJ24H2030L0	24PIN30MM FFC	1	
53	VEE1C12	1394 CABLE	1	
54	K4ZZ04000036	BATTERY TERMINAL	1	
55	VEE1C20	DC IN-BATTERY CABLE	1	
56	VMP7340	DCIN ANGLE	1	
57	VGP6163	SIDE COVER L	1	
58	VGH4881	LED NAME PLATE	1	
59	VJF1544	SD CARD CAP	1	
60	VJF1545	USB COVER	1	
61	VJF1541	JACK COVER	1	
62	VSC5805	SHIELD PLATE B	1	
63	VSC5804	SHIELD PLATE A	1	
64	VWJ1845	CAMERA TO SIDE CASE-R FPC	1	
65	VYQ3807	ZOOM SW 1 U	1	
66	VJF1542	SIDE JACK CAP A	1	
67	VJF1543	SIDE JACK CAP B	1	
68	VGH4876	JACK NAME PLATE 2	1	
69	VMZ3638	HINGE FPC HOLD SHEET	1	
70	VSC5850	P2 CARD SHELD PLATE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
71	VMG1727	LENS CUSHION	1	
72	VGU9219	CAMERA/VCR BUTTON	1	
73	VSC5833	CERAMIC SEAT HEAT RADIATION	4	
74	VSC5824	CDS HEAT SINK	1	
75	VMZ3465	CD CON CUSHION	1	
76	VSC5845	CDS RADIATION SHEET	1	
⚠ 77	VQL1J79	CAUTION LABEL	1	FOR AG-HVX200P
78	VYF3081	EVR COVER U	1	
79	VMT1766	EVF FPC CUSHION	1	
80	VMZ3631	C.B.A. BARRIER	1	
81	VGF1050	DUSTPROOF SHEET	1	
82	VGU9925	REC CHECK BUTTON	1	
83	VGU9215	ZOOM LEVER	1	
84	VMZ3406	ZOOM PCB BLIND SHEET	1	
85	VWJ1844	SIDE JACK FPC	1	
86	VMT1749	FFC FIX SHEET	2	
87	VEE1C05	BATTERY-POWER CABLE	1	
88	VWJ06H2060L0	6PIN FFC	1	
89	VJF1468	XLR CAP	2	
90	VMT1774	CORE TAPE	1	FOR AG-HVX200E/MC/202EN
91	J0KD00000103	CORE	1	FOR AG-HVX200E/MC/202EN
201	XQN2+B4FN	SCREW	74	
202	XQN2+BJ5FJK	SCREW	5	
203	XYN26+A6FJK	SCREW	2	
204	XQN2+BJ6FJ	SCREW	2	
205	XQN2+B4FJK	SCREW	27	
206	XYN2+C5FJ	SCREW	2	
207	XQN2+BJ4FJK	SCREW	2	
208	XQN16+BJ4FJK	SCREW	4	
209	XQN2+A5FJK	SCREW	1	
210	VHD1887	SCREW	7	
E1	VEP03G90C	VTR C.B.A.	1	FOR AG-HVX200P/AN
E1	VEP03G90D	VTR C.B.A.	1	FOR AG-HVX200E/MC/202EN
E2	VEP23655A	CAMERA C.B.A.	1	FOR AG-HVX200P/AN
E2	VEP23655B	CAMERA C.B.A.	1	FOR AG-HVX200E/MC/202EN
E3	VEP03G89A	CODEC C.B.A.	1	FOR AG-HVX200P/AN
E3	VEP03G89B	CODEC C.B.A.	1	FOR AG-HVX200E/MC/202EN
E4	VEP001M6A	R SIDE C.B.A.	1	
E5	VEP06G20A	CAM OP1 C.B.A.	1	
E6	VEP06G21A	CAM OP2 C.B.A.	1	
E7	VEP06G22A	CAM OP3 C.B.A.	1	
E8	VEP01978A	POW C.B.A.	1	
E9	VEP03G92B	P2 CARD C.B.A.	1	
E11	VEP04904A	SIDE JACK2 C.B.A.	1	
E12	VEP001P2A	SD CARD C.B.A.	1	
E14	VEP001M1A	TOP OP C.B.A.	1	
E15	VEP001M2B	BACK PANEL C.B.A.	1	
E16	VEP04902A	SIDE JACK1 C.B.A.	1	
E17	VEP04903A	EXT MIC 2 C.B.A.	1	
E21	VEP001M4A	POWER SW C.B.A.	1	
E22	VEP01979A	BATTERY C.B.A.	1	
E23	VEP01971A	DC IN P.C.BOARD	1	
E24	VEP001M5A	ZOOM SW C.B.A.	1	
E26	VEP22370A	GYRO C.B.A.	1	
E27	VEP03G96A	CAMERA TOP FPC C.B.A.	1	
E28	VEP03G94A	CODEC P2 FPC C.B.A.	2	
E29	VEP001N2A	TOP CON C.B.A.	1	

HANDLE EVF PARTS ASSEMBLY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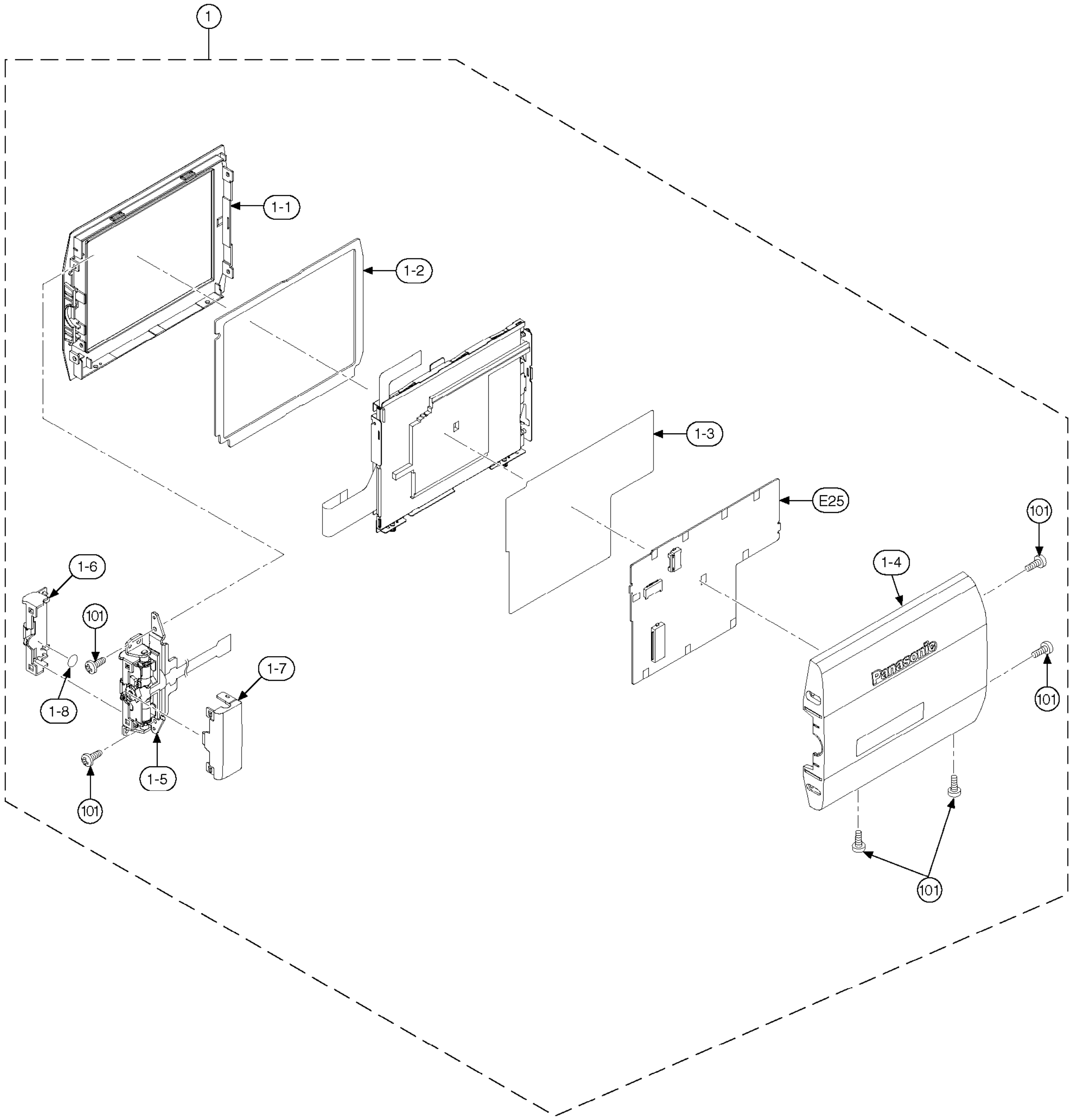
HANDLE EVF PARTS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYK1V99	EYE CAP U	1	
2	VGQ8840	EYE CAP BASE	1	
3	VMT1742	LENS SPACER SHEET	3	
4	VXW0567	EVF LENS ASS'Y	1	
5	VDK0176	HELICOID	1	
6	VGQ8779	DIOPTOR ADJ RING	1	
7	VYQ3545	EVF LCD HOLDER U	1	
8	VGQ8778	EVF HINGE COVER	1	
9	VGP6172	EVF CASE	1	
10	VMG1286	CUSHION RUBBER	2	
11	VKC0594	VF HINGE	1	
12	VMC1697	SPRING	1	
13	VJF1421	SHU	1	
14	VKH0426	HANDLE	1	
15	VWJ24H2060L0	24PIN60MM FFC	1	
16	VXA8302	HANDLE SHIELD	1	
17	VGQ8780	HANDLE GRIP	1	
18	VYK1R40	MIC U	1	
19	VWJ10H2065L0	10PIN65MM FFC	1	
20	VYK1W30	MIC CASE 1U	1	
21	VGP6171	VF CASE R	1	
22	VMP8559	SPEAKER SUPPORT ANGLE	1	
23	VKN0185	SPEAKER NET	1	
24	L0AA02A00057	SPEAKER	1	
25	VEE1B95	SPEAKER HARNESS	1	
26	VWJ1805	DVF FPC	1	
27	VMG1732	MIC DUMPER RUBBER	1	
28	VMT1767	MIC DUMPER SHEET	1	
29	XWG2FJ	WASHER	2	
30	VGU9988	REC BUTTON	1	
31	VGU9214	SLIDE KNOB	1	
32	VGH4857	SLIDE KNOB SHEET	1	
33	VMZ3361	SUPPORT SHEET	1	
34	VMT1766	EVF FPC CUSHION	1	
35	VMG1733	SP SHEET	1	
36	VMT1757	HANDLE GRIP SPACER SHEET	1	
37	VMZ3474	LCD BARRIER (C)	1	
38	VGP6170	VF CASE L	1	
101	XQN2+B4FJK	SCREW	16	
102	XQN2+BJ4FJK	SCREW	13	
103	XQN2+B4FN	SCREW	8	
104	XQN2+CJ6FJK	SCREW	3	
105	XSS2+4FJK	SCREW	4	
106	XSN2+4FC	SCREW	1	
107	XSB3+6FJK	SCREW	2	
108	XYN2+F5FJ	SCREW	1	
109	XQN2+BJ4FJ	SCREW	2	
E18	VEP04906A	HANDLE C.B.A.	1	
E19	VEP001M3A	REMOCON F C.B.A.	1	
E20	VEP29166A	EVF CONNECT C.B.A.	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

LCD PARTS ASSEMBLY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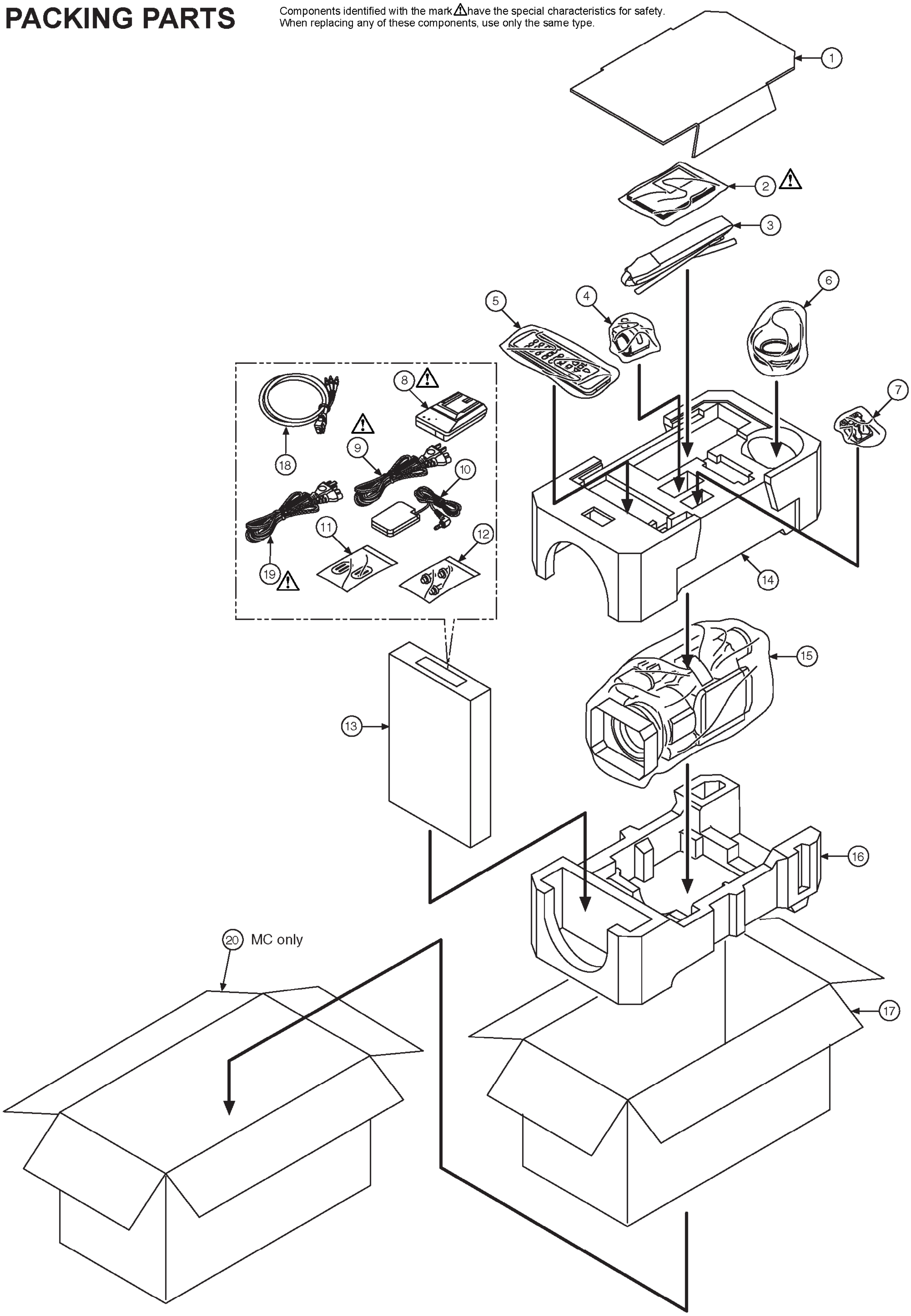
LCD PARTS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYK1U47	LCD U	1	
1-1	VGP6152	LCD CASE BOTTOM	1	
1-2	VMT1717	WATER PROOF PAD	1	
1-3	VMZ3610	LCD PCB INSULATION SHEET	1	
1-4	VYK1U67	LCD CASE U	1	
1-5	VXD0465	HINGE	1	
1-6	VGQ8616	HINGE COVER (LOWER)	1	
1-7	VGQ8775	HINGE COVER TOP	1	
1-8	VMG1286	CUSHION RUBBER	1	
101	XQN16+B4FJK	SCREW	6	
E25	VEP08346A	LCD LEV	1	

PACKING PARTS

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.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PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPN6400	PARTITION	1	
⚠ 2	VQT0S52	OPERATING INSTRUCTIONS	1	FOR AG-HVX200P
⚠ 2	VQT0S53	OPERATING INSTRUCTIONS	1	FOR AG-HVX200E
⚠ 2	VQT0S54	OPERATING INSTRUCTIONS	1	FOR AG-HVX200MC
⚠ 2	VQT0X70	OPERATING INSTRUCTIONS	1	FOR AG-HVX202EN
⚠ 2	VQT0X72	OPERATING INSTRUCTIONS	1	FOR AG-HVX200AN
3	VFC3891	SHOULDER BELT	1	
4	VYC0936	MIC HOLDER U	1	
5	VFA0463	WIRERESS REMOTE CONTROLLER	1	FOR AG-HVX200P
5	VFA0466	WIRERESS REMOTE CONTROLLER	1	FOR AG-HVX200E/MC/AN/202EN
6	VMG1458	EYE CAP	1	
7	VYC0890	MIC HOLDER ADAPTOR	1	
⚠ 8	DE-A20BA	AC ADAPTOR	1	FOR AG-HVX200P
⚠ 8	DE-A20CA	AC ADAPTOR	1	FOR AG-HVX200E/MC/202EN
⚠ 9	VYC0944	AC CORD U	1	FOR AG-HVX200P
⚠ 9	VYC0945	AC CORD U	1	(TYPE C)FOR AG-HVX200E/202E
⚠ 9	VYC0947	AC CORD U	1	FOR AG-HVX200MC
10	K2GJ2DZ00024	DC CORD	1	FOR AG-HVX200P/E/MC/202EN
11	VFC4182	FERRITECORE U	1	
12	K2RYYYYY0001	ADAPTOR PLUG	1	
13	VPK0825	ACCESSORY BOX	1	
14	VPN6398	CUSHION (TOP)	1	
15	VPF0884	POLYETHYLENE BAG	1	
16	VPN6399	CUSHION (BOTTOM)	1	
17	VPG1G03	PACKING CASE	1	FOR AG-HVX200P
17	VPG1G04	PACKING CASE	1	FOR AG-HVX200E
17	VPG1G06	PACKING CASE	1	FOR AG-HVX200MC
17	VPG1H68	PACKING CASE	1	FOR AG-HVX202EN
17	VPG1K33	PACKING CASE	1	FOR AG-HVX200AN
18	K1EY06YY0001	COMPONENT CABLE	1	
⚠ 19	VYC0946	AC CORD U	1	TYPE BF(UK)FOR AG-HVX200E
20	VPG1G05	PACKING CASE (OUT)	1	FOR AG-HVX200MC

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks

ELECTRICAL REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP03G90C	VTR C.B.A.	1	(RTL)FOR AG-HVX200P/AN
■ E1	VEP03G90D	VTR C.B.A.	1	(RTL)FOR AG-HVX200E/MC/202E
■ E2	VEP23655A	CAMERA C.B.A.	1	(RTL)FOR AG-HVX200P/AN
■ E2	VEP23655B	CAMERA C.B.A.	1	(RTL)FOR AG-HVX200E/MC/202E
■ E3	VEP03G89A	CODEC C.B.A.	1	(RTL)FOR AG-HVX200P/AN
■ E3	VEP03G89B	CODEC C.B.A.	1	(RTL)FOR AG-HVX200E/MC/202E
■ E4	VEP001M6A	R SIDE C.B.A.	1	(RTL)
■ E5	VEP06G20A	CAM OP1 C.B.A.	1	(RTL)
■ E6	VEP06G21A	CAM OP2 C.B.A.	1	(RTL)
■ E7	VEP06G22A	CAM OP3 C.B.A.	1	(RTL)
■ E8	VEP01978A	POW C.B.A.	1	(RTL)
■ E9	VEP03G92B	P2 CARD C.B.A.	1	(RTL)
■ E10	VEP03G91A	MECHA IF C.B.A.	1	(RTL)
■ E11	VEP04904A	SIDE JACK C.B.A.	1	(RTL)
■ E12	VEP001P2A	SD CARD C.B.A.	1	(RTL)
■ E13	VEP001N3A	BOTTOM CON C.B.A.	1	(RTL)
■ E14	VEP001M1A	TOP OP C.B.A.	1	(RTL)
■ E15	VEP001M2B	BACK PANEL C.B.A.	1	(RTL)
■ E16	VEP04902A	SIDE JACK C.B.A.	1	(RTL)
■ E17	VEP04903A	EXT MIC2 C.B.A.	1	(RTL)
■ E18	VEP04906A	HANDLE C.B.A.	1	(RTL)
■ E19	VEP001M3A	REMOCON C.B.A.	1	(RTL)
■ E20	VEP29166A	EVF CONNECT C.B.A.	1	(RTL)
■ E21	VEP001M4A	POWER SW C.B.A.	1	(RTL)
■ E22	VEP01979A	BATTERY C.B.A.	1	(RTL)
■ E23	VEP01971A	DC IN C.B.A.	1	(RTL)
■ E24	VEP001M5A	ZOOM SW C.B.A.	1	(RTL)
■ E25	VEP08346A	LCD LEV C.B.A.	1	(RTL)
■ E26	VEP22370A	GYRO C.B.A.	1	(RTL)
■ E27	VEP03G96A	CAMERA TOP FPC C.B.A.	1	(RTL)
■ E28	VEP03G94A	CODEC P2 FPC C.B.A.	1	(RTL)
■ E29	VEP001N2A	TOP CON C.B.A.	1	(RTL)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP03G90C	VTR C.B.A.	1	(RTL)FOR AG-HVX200P/AN
■ E1	VEP03G90D	VTR C.B.A.	1	(RTL)FOR AG-HVX200E/MC/202E
C1	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C2,C3	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C5,C6	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C7	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C8	F3G1A226A035	T.CAPACITOR CH6.3V 22U	1	
C9	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C10	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C11-13	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	3	
C15	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C16	F3G1A226A035	T.CAPACITOR CH6.3V 22U	1	
C17,18	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	2	
C19	F3G1A226A035	T.CAPACITOR CH6.3V 22U	1	
C20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C21	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C22,23	ECJ0EC1H100D	C.CAPACITOR CH 50V 10P	2	
C24	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C27	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C31	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C33-35	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C36	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C37	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C38	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C39	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C40	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C41-43	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C44,45	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	2	
C46	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C47	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C48	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C49	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C50	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C51	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C52	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C53	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C54	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C55	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C56	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C57,58	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C59	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C60	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C62	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C63-67	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C68,69	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	2	
C70	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C73	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C74,75	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C76,77	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C78-80	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	3	
C81	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C82	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C83	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C84	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C85	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C86	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C87	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C88	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C89,90	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	2	
C91	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C92	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C93	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C94,95	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	2	
C96	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	1	
C97	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C98	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	1	
C99-01	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C102,03	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C104-06	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	3	
C107,08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C109	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C110-12	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C114,15	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	2	
C117	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C118	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C119,20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C121	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C122	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C124,25	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C126	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C127-30	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C131	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C132-34	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C135	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C136-54	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	19	
C156,57	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C158	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C159-61	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
D3	B0JCDD000002	DIODE	1	
D8	MA3S13300L	DIODE	1	
D10	MA2SD2400L	DIODE	1	
IC1	C0CBABC00094	IC	1	
IC2	C0JBAZ002392	IC	1	
IC3	C0JBAZ001466	IC	1	
IC5	C1ZBZ0002602	IC	1	
IC6	C0JBAZ002390	IC	1	
IC9	C1AB00002028	IC	1	
IC11	C0JBAC000342	IC	1	
IC12	C0ZBZ0000830	IC	1	
IC13,14	C0JBAZ002390	IC	2	
IC15,16	C1AB00001487	IC	2	
IC17	C1AB00000647	IC	1	
IC18	C0ABAA000046	IC	1	
IC19	C1AB00000647	IC	1	
IC20	C1AB00001904	IC	1	
IC21	C1AB00001695	IC	1	
IC22	C0JBAZ002585	IC	1	
IC23	C0JBAZ002390	IC	1	
ID1	VVVSI4567C	SOFTWARE	1	DOWNLOADONLY(VEP03G90C)
ID1	VVVSI4594C	SOFTWARE	1	DOWNLOADONLY(VEP03G90D)
IP1	C2DBYY000107	IC	1	FOR VEP03G90C
IP1	C2DBYY000120	IC	1	FOR VEP03G90D
IP2	C3EBGG000016	IC	1	
L1	G1C100KA0055	COIL 10UH	1	
L2	J0JAC0000014	FILTER	1	
L3	G1C100KA0055	COIL 10UH	1	
L5	J0JBC0000026	FILTER	1	
L6,L7	G1C100KA0055	COIL 10UH	2	
L8-13	G1C330K00017	COIL 33UH	6	
L14,15	J0JAC0000014	FILTER	2	
L16	G1C101KA0055	COIL 100UH	1	
P1	K1MR70B00004	CONNECTOR	1	
P2	K1MN71BA0132	CONNECTOR	1	
P3	K1MN30BA0149	CONNECTOR	1	
P4	K1KA40AA0594	CONNECTOR (MALE)	1	
P5	K1KA30BA0028	CONNECTOR (MALE)	1	
Q5	2SB0970X0L	TRANSISTOR	1	
Q6	2SB1218A0L	TRANSISTOR	1	
Q7	B1ABBE000002	TRANSISTOR	1	
Q8	2SB1218A0L	TRANSISTOR	1	
QR3	UNR921FJ0L	TRANSISTOR	1	
QR4	UNR911FJ0L	TRANSISTOR-RESISTOR	1	
QR5	UNR9212J0L	TRANSISTOR	1	
R3	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R4-R7	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	4	
R10-13	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	4	
R14	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R16-19	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R20-31	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	12	
R35	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R36	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R40	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R41,42	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R44	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R46	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R47	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R48	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R49	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R54	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R55	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R56	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R57	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R58	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R59	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R60,61	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R67	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	1	
R69,70	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R71	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R73,74	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	2	
R76	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R77	ERJ2RHD123	M.RESISTOR CH 1/16W 12K	1	
R78	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R79	ERJ2RHD123	M.RESISTOR CH 1/16W 12K	1	
R80,81	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R83-86	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R87	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R88	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R89,90	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R91-93	ERJ2RHD331	M.RESISTOR CH 1/16W 330	3	
R94	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R95	ERJ2RHD331	M.RESISTOR CH 1/16W 330	1	
R97	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R98	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R99	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	1	
R100-02	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R103	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R104	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R105-08	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	4	
R110	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R111	ERJ2RHD221	M.RESISTOR CH 1/16W 220	1	
R112-14	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R115	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R116-36	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	21	
R137	ERJ2RHD822	M.RESISTOR CH 1/16W 8.2K	1	
R138	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R139	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R140	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R141	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R142	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R143	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R144	ERJ2RHD822	M.RESISTOR CH 1/16W 8.2K	1	
R146,47	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R149	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R150	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R151	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R152	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R153	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R154	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R155	ERJ2RHD822	M.RESISTOR CH 1/16W 8.2K	1	
R158	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R159-61	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R162	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R163	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R164	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R166	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R167	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R176	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R177	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R178,79	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R180-83	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	4	
R185	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R186,87	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R192	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R193	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R194, 95	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R196, 97	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	2	
R200	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R202	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R203	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R204	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R205	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R206	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R207	ERJ2RHD123	M.RESISTOR CH 1/16W 12K	1	
R208	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	1	
R209	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R210, 11	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	2	
R212	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R213	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R214	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R215-17	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R218, 19	ERJ2RKD560	M.RESISTOR CH 1/16W 56	2	
R220	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R221	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R222	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R223-25	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R226, 27	ERJ2RKD560	M.RESISTOR CH 1/16W 56	2	
R228	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R229, 30	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R231-38	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	8	
R239	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R240-43	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	4	
R244	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R245	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R246	ERJ2RHD123	M.RESISTOR CH 1/16W 12K	1	
R247-49	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	3	
R250	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R252	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R254-57	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	4	
R259	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R260, 61	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R262-67	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	6	
R268, 69	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	2	
R270, 71	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	2	
R272, 73	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	2	
R274	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R275	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R276	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R277	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R278	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R279	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R280	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R281	ERJ2RHD122	M.RESISTOR CH 1/16W 1.2K	1	
R282, 83	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	2	
R284	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R285	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R286	ERJ2RHD331	M.RESISTOR CH 1/16W 330	1	
R287	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R288	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R289	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R290	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R291	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R293	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R294	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R295	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R299	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R300	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R301-08	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	8	
R309	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R311	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R312	ERJ2RHD221	M.RESISTOR CH 1/16W 220	1	
R313	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R314	ERJ2RHD271	M.RESISTOR CH 1/16W 270	1	
R315	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R316	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R317	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R318	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R319	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R320	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R321, 22	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R323	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R324	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R325	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R326	ERJ2RHD221	M.RESISTOR CH 1/16W 220	1	
R327	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	1	
R328	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R329-33	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	5	
R334	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R335, 36	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	2	
R337	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R339	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R343	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R345	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R348	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R349	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R350, 51	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R354	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R356	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
X1	H0J327200115	CRYSTAL OSCILLATOR	1	
X2	H0J135500008	CRYSTAL OSCILLATOR	1	
■ E2	VEP23655A	CAMERA C.B.A.	1	(RTL)FOR AG-HVX200P/AN
■ E2	VEP23655B	CAMERA C.B.A.	1	(RTL)FOR AG-HVX200E/MC/202E
C20, 21	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C23	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C24	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C27	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C33-37	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C38	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C39	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C100	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C103	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C104	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	1	
C105-10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C111	F3F0J106A055	T.CAPACITOR CH6.3V 10U	1	
C112	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C114, 15	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C116	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	1	
C117-26	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	10	
C151	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C152	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C153	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C154	F3F1V105A032	T.CAPACITOR CH 35V 1U	1	
C156	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C162-64	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	3	
C165	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C166	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C167	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C168	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C169	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C170	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C171, 72	F1L1E1060018	C.CAPACITOR CH 25V 10U	2	
C173	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C174, 75	F1L1E1060018	C.CAPACITOR CH 25V 10U	2	
C176	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C177, 78	F1L1E1060018	C.CAPACITOR CH 25V 10U	2	
C179	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C200	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C201	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C202	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C203	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C204	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C205	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C206, 07	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C208	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C209	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C210	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C211	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C212	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C213	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C214	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	1	
C215	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C216,17	F3F1A106A046	T.CAPACITOR CH 10V 10U	2	
C218,19	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C220,21	F3F1A106A046	T.CAPACITOR CH 10V 10U	2	
C222,23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C224,25	F3F1A106A046	T.CAPACITOR CH 10V 10U	2	
C226,27	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C228,29	ECJ1VB1H472K	C.CAPACITOR CH 50V 4700P	2	
C230	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C231	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C232,33	F3F1V105A032	T.CAPACITOR CH 35V 1U	2	
C234	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C235	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C236	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C240-44	F1L1E1060018	C.CAPACITOR CH 25V 10U	5	
C247	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C252-54	F1L1E1060018	C.CAPACITOR CH 25V 10U	3	
C255,56	F3G1A336A035	T.CAPACITOR CH6.3V 33U	2	
C258	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C259	F3G1A336A035	T.CAPACITOR CH6.3V 33U	1	
C260,61	F1L1E3350001	C.CAPACITOR CH 25V 0.33U	2	
C300	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C301	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C302	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C303	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C304	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C305,06	F3F1A106A046	T.CAPACITOR CH 10V 10U	2	
C307	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C308	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C309	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C310	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C311,12	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C313,14	F3F1A106A046	T.CAPACITOR CH 10V 10U	2	
C315-17	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C318,19	F3F1A106A046	T.CAPACITOR CH 10V 10U	2	
C320,21	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C322	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C323	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C324	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C330	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C333	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C336-38	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C339,40	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C341,42	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C343,44	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C345,46	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C347,48	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C401,02	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C403	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C404-06	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C407	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C408-11	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C412-18	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	7	
C419,20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C421	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C422-24	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C425	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C426,27	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C428-31	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	4	
C432-34	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C436,37	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C440-43	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C444	F3G1A336A035	T.CAPACITOR CH6.3V 33U	1	
C500	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C501	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C502,03	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C504,05	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	2	
C506	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C508	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C509,10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C511	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	1	
C512	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C513	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	1	
C514	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C515	ECJ0EC1H050C	C.CAPACITOR CH 50V 5P	1	
C516	ECJ0EC1H080D	C.CAPACITOR CH 50V 8P	1	
C517-20	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	4	
C521	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C522,23	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	2	
C524-34	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	11	
C537	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C701,02	F3F0J106A055	T.CAPACITOR CH6.3V 10U	2	
C703	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C704	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C705	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C707-10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C711	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	FOR VEP23655B
C712	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C713,14	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C715	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C716-18	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C719	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C720	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C721,22	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	2	
C723-26	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C727,28	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	2	
C729,30	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C731	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C800,01	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	2	
C802,03	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C804	ECJ0EC1H330J	C.CAPACITOR CH 50V 33P	1	
C805	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C806	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C807	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C808	F3F1C106A039	T.CAPACITOR CH 16V 10U	1	
C809-13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C814	F3F1D475A034	T.CAPACITOR CH 20V 4.7U	1	
C815	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C816	ECJ0EB1H222K	C.CAPACITOR CH 50V 2200P	1	
C817	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C818	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C819	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C820	F3F1C106A039	T.CAPACITOR CH 16V 10U	1	
C821	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C823,24	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	2	
C825,26	F3G1A476A029	T.CAPACITOR CH 10V 47U	2	
C827	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C829	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C831	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C833,34	ECJ0EB1H471K	C.CAPACITOR CH 50V 470P	2	
C835	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C836,37	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	2	
C838,39	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C841	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C842	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C843	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	F1J1C105A118
C844	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C845	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C846	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C848	F3F1C106A039	T.CAPACITOR CH 16V 10U	1	
C850	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C851	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C852	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C853	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C854	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	F1J1C105A118
C855	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C856	F3F1C106A039	T.CAPACITOR CH 16V 10U	1	
C857	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	1	
C858	ECJ0EB1H471K	C.CAPACITOR CH 50V 470P	1	
C859	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C860	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C861	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C862	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C863	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C864	F3F1C106A039	T.CAPACITOR CH 16V 10U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C865	F1G1C822A040	C.CAPACITOR CH 16V 8200P	1	
C866	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C867	ECJ0EB1H272K	C.CAPACITOR CH 50V 2700P	1	
C868	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	1	
C869	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C870	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	1	
C871	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C872	F1G1C822A040	C.CAPACITOR CH 16V 8200P	1	
C873	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C874	F3F1C106A039	T.CAPACITOR CH 16V 10U	1	
C875	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C876,77	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	F1J1C105A118
C878	F3F1C106A039	T.CAPACITOR CH 16V 10U	1	
C879	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C881-84	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C950	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C951	F3G1A476A029	T.CAPACITOR CH 10V 47U	1	
C953	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C954	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	F1J1C105A118
C955	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C956	F3F1C106A039	T.CAPACITOR CH 16V 10U	1	
C957	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1000	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1001	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C1002	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C1003,04	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1005	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C1006	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C1007-09	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	3	
C1010	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1011	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C1012	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1013,14	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	2	
C1015	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1016	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1017,18	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1019	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C1020	ECUX1H121JCQ	C.CAPACITOR CH 50V 120P	1	
C1021	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C1022	ECUX1H121JCQ	C.CAPACITOR CH 50V 120P	1	
C1025	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	1	
C1026	ECJ0EC1H030C	C.CAPACITOR CH 50V 3P	1	
C1027	ECJ0EC1H050C	C.CAPACITOR CH 50V 5P	1	
C1028	ECJ0EC1H330J	C.CAPACITOR CH 50V 33P	1	
C1029	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	1	
C1030	ECJ0EC1H030C	C.CAPACITOR CH 50V 3P	1	
C1031	ECJ0EC1H050C	C.CAPACITOR CH 50V 5P	1	
C1032	ECJ0EC1H100D	C.CAPACITOR CH 50V 10P	1	
C1033	ECJ0EC1H050C	C.CAPACITOR CH 50V 5P	1	
C1034	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C1035	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	FOR VEP23655A
C1036	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	FOR VEP23655A
C1037	ECJ0EC1H680J	C.CAPACITOR CH 50V 33P	1	FOR VEP23655A
C1037	ECJ0EC1H680J	C.CAPACITOR CH 50V 68P	1	FOR VEP23655B
C1038	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1039	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C1040	ECJ0EC1H470J	C.CAPACITOR CH 50V 47P	1	
C1041	ECJ0EC1H080C	C.CAPACITOR CH 50V 8P	1	
C1042	ECJ0EC1H180J	C.CAPACITOR CH 50V 18P	1	
C1043,44	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1045	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C1046	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	1	
C1047	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1048	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1049	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C1050	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C1051	ECJ0EC1H050C	C.CAPACITOR CH 50V 5P	1	
C1052	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1053	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1054-57	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C1058-60	F1K0J1060002	C.CAPACITOR CH6.3V 10U	3	
C1061	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C1062	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1063	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C1064	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1065	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C1066-68	F3H1A107A072	T.CAPACITOR CH 10V 100U	3	
C1069	F3G1A476A029	T.CAPACITOR CH 10V 47U	1	
C1070,71	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	FOR VEP23655B
D150	MA121	DIODE	1	
D500	B0JCDD000002	DIODE	1	
D504	MA3J14300L	DIODE	1	
D1000,01	MA142K	DIODE	2	
IC20	C0CBABC00060	IC	1	
IC23	C0JBAB000722	IC	1	
IC29	C0JBAA000374	IC	1	
IC30	C0JBAF000625	IC	1	
IC31	C0JBAB000673	IC	1	
IC40	C0CBABC00060	IC	1	
IC101	TVHC157FT	IC	1	
IC153-55	C1AB00002039	IC	3	
IC200-02	C0CBCBC00053	IC	3	
IC203	NJM431U	IC	1	C0DBEZC00003
IC300-02	C0CBCBC00053	IC	3	
IC303-05	C0FBAY000008	IC	3	
IC400	C0CBCAC00072	IC	1	
IC401	C1AB00002486	IC	1	
IC403	C0JBAA000344	IC	1	
IC404	C0JBAA000350	IC	1	
IC405	C0JBAA000344	IC	1	
IC406	C0JBAZ002162	IC	1	
IC501,02	C0JBAB000629	IC	2	
IC503	C0JBAA000356	IC	1	
IC505,06	C0JBAA000356	IC	2	
IC700	C1AB00002493	IC	1	
IC800	C0ABHZ000004	IC	1	
IC801	C0GBF0000016	IC	1	
IC802	C1BB00001090	IC	1	
IC803	C0CBAEC00006	IC	1	
IC804	C0FBAG000068	IC	1	
IC805	C1AB00002145	IC	1	
IC806	C1AB00002150	IC	1	
IC807	C0CBADC00034	IC	1	
IC808	C0ABCA000058	IC	1	
IC809,10	C0CBADC00034	IC	2	
IC950	C1AB00002150	IC	1	
IC1000	C0JBAA000344	IC	1	
IC1001	C1AB00000647	IC	1	
IC1002	C0JBAS000214	IC	1	
IC1003-05	C1AB00001487	IC	3	
IC1006	C0JBAS000214	IC	1	
IC1007	C1AB00001705	IC	1	
ID101	VVVSI4606A	SOFTWARE	1	DOWNLOADONLY(VEP23655A)
ID101	VVVSI4647A	SOFTWARE	1	DOWNLOADONLY(VEP23655B)
ID500	VVVSI4560F	SOFTWARE	1	DOWNLOADONLY(VEP23655A)
ID500	VVVSI4588F	SOFTWARE	1	DOWNLOADONLY(VEP23655B)
ID504	VVVSI4587F	SOFTWARE	1	DOWNLOADONLY(VEP23655B)
IP100	C1ZBZ0003190	IC	1	
IP500	C3EBJG000001	IC	1	
IP504	C2DBYY000135	IC	1	FOR VEP23655A
IP504	C2DBYY000051	IC	1	FOR VEP23655B
L20	J0JCC0000119	FILTER	1	
L21	J0JCC0000405	FERRITE CORE	1	
L24-27	J0JCC0000405	FERRITE CORE	4	
L32	J0JCC0000119	FILTER	1	
L100,01	J0JCC0000119	FILTER	2	
L150-52	J0JCC0000119	FILTER	3	
L200-07	J0JCC0000119	FILTER	8	
L300-08	G1C100KA0092	COIL 10UH	9	
L400	J0JCC0000119	FILTER	1	
L402,03	J0JCC0000119	FILTER	2	
L404	J0JCC0000405	FERRITE CORE	1	
L406-12	J0JCC0000405	FERRITE CORE	7	
L500-02	J0JCC0000119	FILTER	3	
L700,01	G1C100KA0068	COIL 10UH	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L702	J0JCC0000119	FILTER	1	
L800	G1C100KA0068	COIL 10UH	1	
L801, 02	G1C220KA0068	COIL 22UH	2	
L803-07	G1C100KA0068	COIL 10UH	5	
L950	G1C220KA0068	COIL 22UH	1	
L1000	G1C100KA0068	COIL 10UH	1	
L1001	J0JCC0000119	FILTER	1	
L1002, 03	G1C6R8JA0041	COIL 6. 8UH	2	
L1004	G1C2R2JA0041	COIL 2. 2UH	1	
L1005	G1C4R7JA0041	COIL 4. 7UH	1	
L1006	G1C1R0JA0041	COIL 1UH	1	
L1007	G1C2R2JA0041	COIL 2. 2UH	1	
L1009, 10	J0JCC0000119	FILTER	2	
P1	K1KA60A00148	CONNECTOR (MALE)	1	
P2	K1MN51B00014	CONNECTOR	1	
P3	K1MN10BA0059	CONNECTOR	1	
P4	K1MN51B00014	CONNECTOR	1	
P6	K1KA80A00125	CONNECTOR (MALE)	1	
P7	K1MY20BA0071	CONNECTOR	1	
P8	K1KA70A00051	CONNECTOR (MALE)	1	
P9	K1KBA0AA0169	CONNECTOR (FEMALE)	1	
P10	K1KA70A00051	CONNECTOR (MALE)	1	
P11	K1KB60A00141	CONNECTOR (FEMALE)	1	
Q200	2SB1462J0L	TRANSISTOR	1	
Q201, 02	2SD2216J0L	TRANSISTOR	2	
Q203	XP1501	TRANSISTOR-RESISTOR	1	XP0150100L
Q204	XP1401	TRANSISTOR-RESISTOR	1	XP0140100L
Q205	2SD1819A-R	TRANSISTOR	1	
Q206	2SB1462J0L	TRANSISTOR	1	
Q207	2SD2216J0L	TRANSISTOR	1	
Q208	2SB1218A0L	TRANSISTOR	1	
Q209	2SD2216J0L	TRANSISTOR	1	
Q500-02	XN0460100L	TRANSISTOR-RESISTOR	3	
Q700	2SB1462J0L	TRANSISTOR	1	
Q800	2SD221000L	TRANSISTOR	1	
Q801	2SB0970X0L	TRANSISTOR	1	
Q1000, 01	2SB1462J0L	TRANSISTOR	2	
Q1002, 03	2SD2216J0L	TRANSISTOR	2	
Q1004	2SB1462J0L	TRANSISTOR	1	
Q1005	XP6401	TRANSISTOR-RESISTOR	1	XP0640100L
Q1006	2SB1462J0L	TRANSISTOR	1	
Q1007	XP0460100L	TRANSISTOR	1	
Q1008	2SB1462J0L	TRANSISTOR	1	FOR VEP23655A
Q1009	2SB1462J0L	TRANSISTOR	1	
Q1011, 12	2SD2216J0L	TRANSISTOR	2	
Q1013	XP0460100L	TRANSISTOR	1	
Q1014	XP6401	TRANSISTOR-RESISTOR	1	XP0640100L
Q1015	XP0450100L	TRANSISTOR	1	
Q1016	2SB1462J0L	TRANSISTOR	1	
Q1017	2SD2216J0L	TRANSISTOR	1	
Q1018	2SD2216J0L	TRANSISTOR	1	FOR VEP23655B
QR200, 01	UNR9113J0L	TRANSISTOR	2	
QR500	B1GDBEJG0003	TRANSISTOR-RESISTOR	1	
QR501	UNR9211J0L	TRANSISTOR	1	
QR800-05	UNR9212J0L	TRANSISTOR	6	
QR806, 07	UNR9215J0L	TRANSISTOR	2	
QR1000	B1GBBEMM0001	TRANSISTOR	1	
QR1001, 02	UNR9213J0L	TRANSISTOR	2	
QR1003	UNR9211J0L	TRANSISTOR	1	
QR1004, 05	UNR9213J0L	TRANSISTOR	2	
R2	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R7, R8	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R9-13	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	5	
R21	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R24	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R28	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R34, 35	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	2	
R37	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R41, 42	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	2	
R43-45	J0JDC0000102	FILTER	3	
R46-48	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R102, 03	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R104	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R105	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R106	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R109, 10	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R112, 13	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R116	ERJ2GEJ472	M.RESISTOR CH 1/16W 4. 7K	1	
R117, 18	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R120	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R172-74	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	3	
R200	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R201	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R202	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R203	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R204	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R205	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R206	ERJ2GEJ222	M.RESISTOR CH 1/16W 2. 2K	1	
R207	ERJ2GEJ332	M.RESISTOR CH 1/16W 3. 3K	1	
R208	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R210	ERJ2GEJ222	M.RESISTOR CH 1/16W 2. 2K	1	
R211	ERJ2GEJ562	M.RESISTOR CH 1/16W 5. 6K	1	
R212	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R214	ERJ2GEJ222	M.RESISTOR CH 1/16W 2. 2K	1	
R215	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R217	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R218	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R220	ERJ2GEJ222	M.RESISTOR CH 1/16W 2. 2K	1	
R221	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R222	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R224	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R225	ERJ2RKD274	M.RESISTOR CH 1/16W 270K	1	
R226	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R227	ERJ2RHD563	M.RESISTOR CH 1/16W 56K	1	
R228	ERJ2RKD154	M.RESISTOR CH 1/16W 150K	1	
R229	ERJ2RHD563	M.RESISTOR CH 1/16W 56K	1	
R230	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R232, 33	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R300-11	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	12	
R313-16	EXB28V330J	COMBI.R-R 33	4	
R318-21	EXB28V330J	COMBI.R-R 33	4	
R323-26	EXB28V330J	COMBI.R-R 33	4	
R327-29	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	
R403, 04	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	2	
R407	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R411	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP23655B
R413	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP23655B
R414-16	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R417	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP23655A
R418	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R419	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP23655A
R420, 21	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	2	
R422	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R423	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R424, 25	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R427	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R431	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R440	EXB28V330J	COMBI.R-R 33	1	
R442-50	EXB28V330J	COMBI.R-R 33	9	
R451	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R454	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R459, 60	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R461	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R463-67	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	5	
R468, 69	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	2	
R470, 71	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	2	
R472-74	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	
R476	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R477-92	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	16	
R493	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R494	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R500, 01	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R502, 03	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R504, 05	ERJ2GEJ332	M.RESISTOR CH 1/16W 3. 3K	2	
R506	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R508	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R509, 10	ERJ2GEJ272	M. RESISTOR CH 1/16W 2.7K	2	
R511	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R512	ERJ2RHD681	M. RESISTOR CH 2W 680	1	
R513	ERJ2GEJ393	M. RESISTOR CH 1/16W 39K	1	
R515, 16	ERJ2GEJ332	M. RESISTOR CH 1/16W 3.3K	2	
R517, 18	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	2	
R519-21	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	3	
R522, 23	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	2	
R524	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R525	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R526	ERJ2GEJ332	M. RESISTOR CH 1/16W 3.3K	1	
R529	ERJ2GEJ332	M. RESISTOR CH 1/16W 3.3K	1	
R530-34	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	5	
R535	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R537, 38	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	2	
R539	ERJ2GEJ332	M. RESISTOR CH 1/16W 3.3K	1	
R540	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R541, 42	ERJ2GEJ332	M. RESISTOR CH 1/16W 3.3K	2	
R543, 44	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	2	
R545	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R546	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R547-49	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	3	
R551-53	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	3	
R554-57	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	4	
R558-60	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	3	
R561	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R562	ERJ2GEJ105	M. RESISTOR CH 1/16W 1M	1	
R563	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R564-70	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	7	
R571, 72	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	2	
R573	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R574	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R575, 76	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	2	
R577	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R579, 80	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	2	
R581	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R582-85	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	4	
R586	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R587	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R588	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	1	
R590, 91	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	2	
R592-94	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	3	
R595, 96	ERJ2GEJ153	M. RESISTOR CH 1/16W 15K	2	
R597, 98	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	2	
R599	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	
R600	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R601-05	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	5	
R606-08	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	3	
R609	ERJ2GEJ153	M. RESISTOR CH 1/16W 15K	1	
R610	ERJ2GEJ183	M. RESISTOR CH 1/16W 18K	1	
R611	ERJ2GEJ153	M. RESISTOR CH 1/16W 15K	1	
R612, 13	ERJ2GEJ105	M. RESISTOR CH 1/16W 1M	2	
R614	ERJ2GEJ183	M. RESISTOR CH 1/16W 18K	1	
R615	ERJ2GEJ153	M. RESISTOR CH 1/16W 15K	1	
R616	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R617-19	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	3	
R620	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1	
R621	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R622, 23	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	2	
R624	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R625	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R626	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1	
R627-29	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	3	
R631, 32	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	2	
R633	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R634-37	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	4	
R638	ERJ2GEJ183	M. RESISTOR CH 1/16W 18K	1	
R639-41	ERJ2RHD681	M. RESISTOR CH 2W 680	3	
R642, 43	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	2	
R644, 45	ERJ2RHD681	M. RESISTOR CH 2W 680	2	
R648	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1	
R649	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	1	
R650-54	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	5	
R655-57	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	3	
R701	ERJ2GEJ680	M. RESISTOR CH 1/16W 68	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R703	ERJ2GEJ221	M. RESISTOR CH 1/16W 220	1	
R704	ERJ2RHD183	M. RESISTOR CH 1/16W 18K	1	
R705	ERJ2RHD103	M. RESISTOR CH 1/16W 10K	1	
R706-12	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	7	
R713, 14	ERJ2RHD272	M. RESISTOR CH 1/16W 2.7K	2	
R715-19	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	5	
R720	ERJ2RHD272	M. RESISTOR CH 1/16W 2.7K	1	
R721, 22	EXB28V330J	COMBI. R-R 33	2	
R723-27	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	5	
R728	ERJ2GEJ152	M. RESISTOR CH 1/16W 1.5K	1	
R729	ERJ2RHD271	M. RESISTOR CH 1/16W 270	1	
R730	ERJ2RHD221	M. RESISTOR CH 1/16W 220	1	
R731	ERJ2GEJ221	M. RESISTOR CH 1/16W 220	1	
R732	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R733	ERJ2GEJ100	M. RESISTOR CH 1/16W 10	1	
R748	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R749	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	FOR VEP23655A
R800	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R801	ERJ2RHD113	M. RESISTOR CH 1/16W 11K	1	
R802	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R803	ERJ2RHD473	M. RESISTOR CH 1/16W 47K	1	
R804. 05	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	2	
R806	ERJ2RHD683	M. RESISTOR CH 1/16W 68K	1	
R807	ERJ2RHD473	M. RESISTOR CH 1/16W 47K	1	
R808	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R809	ERJ2RHD122	M. RESISTOR CH 1/16W 1.2K	1	
R810	ERJ2RHD332	M. RESISTOR CH 1/16W 3.3K	1	
R811	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1	
R812	ERJ2RHD332	M. RESISTOR CH 1/16W 3.3K	1	
R813	ERJ2GEJ273	M. RESISTOR CH 1/16W 27K	1	
R814	ERJ2RHD223	M. RESISTOR CH 1/16W 22K	1	
R815, 16	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	2	
R817	ERJ2GEJ105	M. RESISTOR CH 1/16W 1M	1	
R818	ERJ2RHD392	M. RESISTOR CH 1/16W 3.9K	1	
R819, 20	ERAS39J5R6	M. RESISTOR 5.6	2	
R821	ERJ2RHD333	M. RESISTOR CH 1/16W 33K	1	
R822	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	1	
R823	ERJ2GEJ105	M. RESISTOR CH 1/16W 1M	1	
R828	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R829	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R830	ERJ2GEJ333	M. RESISTOR CH 1/16W 33K	1	
R831	ERJ2GEJ563	M. RESISTOR CH 1/16W 56K	1	
R837	ERJ2GEJ224	M. RESISTOR CH 1/16W 220K	1	
R838	ERJ2GEJ124	M. RESISTOR CH 1/16W 120K	1	
R839	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1	
R840	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R841	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R844	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R845	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R846	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1	
R847	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R848	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R849, 50	ERJ2RHD472	M. RESISTOR CH 1/16W 4.7K	2	
R851-53	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	3	
R854, 55	ERJ2GEJ154	M. RESISTOR CH 1/16W 150K	2	
R856-58	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	3	
R859, 60	ERJ2GEJ182	M. RESISTOR CH 1/16W 1.8K	2	
R861, 62	ERJ2GEJ393	M. RESISTOR CH 1/16W 39K	2	
R863	ERJ2GEJ333	M. RESISTOR CH 1/16W 33K	1	
R864	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	1	
R865	ERJ2GEJ682	M. RESISTOR CH 1/16W 6.8K	1	
R866	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
R867	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R868	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R869	ERJ3GEYJ2R2	M. RESISTOR CH 1/16W 2.2	1	
R870	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R871	ERJ2GEJ273	M. RESISTOR CH 1/16W 27K	1	
R872, 73	ERJ2GEJ392	M. RESISTOR CH 1/16W 3.9K	2	
R874	ERJ3GEYJ2R2	M. RESISTOR CH 1/16W 2.2	1	
R875	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R876-78	ERJ3GEYJ3R3	M. RESISTOR CH 1/16W 3.3	3	
R879	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R880	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R881	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R882	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R883	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R884	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R885	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R886,87	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R888	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R889	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R890	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R891	ERJ2GEJ154	M.RESISTOR CH 1/16W 150K	1	
R892	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R893	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R894	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R895	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R896	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R897,98	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R900	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R901	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R902	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R903	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R904	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R905	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R906	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R907	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R908	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R909	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R910	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R911	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R912	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R913,14	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	2	
R915,16	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R917	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R918,19	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	2	
R920	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R921	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R922	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R923	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R924	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R925	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R926	ERJ2GEJ181	M.RESISTOR CH 1/16W 180	1	
R928,29	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R932,33	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R936-38	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	
R951,52	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	2	
R953,54	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	2	
R955-61	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	7	
R962	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1000	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R1001,02	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R1003	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1004,05	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R1006	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1007	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1008	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1009	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1010,11	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R1012	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1013	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1014	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1015	ERJ2RHD101	M.RESISTOR CH 1/16W 100	1	
R1016	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1017	ERJ2RHD101	M.RESISTOR CH 1/16W 100	1	
R1018	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1019	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1020	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1021	ERJ2RHD822	M.RESISTOR CH 1/16W 8.2K	1	
R1022	ERJ2RHD561	M.RESISTOR CH 1/16W 560	1	
R1023	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1024	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R1025	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1026	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1029,30	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R1031	ERJ2RHD561	M.RESISTOR CH 1/16W 560	1	
R1032,33	ERJ2RHD271	M.RESISTOR CH 1/16W 270	2	
R1034	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R1035	ERJ2RHD681	M.RESISTOR CH 2W 680	1	
R1036	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1037,38	ERJ2RHD821	M.RESISTOR CH 1/16W 820	2	
R1039	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	FOR VEP23655A
R1040	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1041	ERJ2RHD681	M.RESISTOR CH 2W 680	1	
R1042	ERJ2RHD682	M.RESISTOR CH 1/16W 6.8K	1	
R1043	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	FOR VEP23655A
R1044	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1045	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1046	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R1047	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R1048-50	ERJ2RHD152	M.RESISTOR CH 1/16W 1.5K	3	
R1051	ERJ2RHD222	M.RESISTOR CH 1/16W 2.2M	1	
R1052	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1053	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1054	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1055	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1057	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R1058	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R1059	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1060	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1061	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	1	
R1062.63	ERJ2RHD222	M.RESISTOR CH 1/16W 2.2M	2	
R1064	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	1	
R1066	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1067	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R1068	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	1	
R1069	ERJ2GEJ181	M.RESISTOR CH 1/16W 180	1	
R1070,71	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R1073	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R1074,75	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R1076	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1077-79	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R1080,81	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	2	
R1082,83	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	2	
R1084	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	FOR VEP23655B
R1085,86	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	FOR VEP23655B
R1087	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	FOR VEP23655B
R1088	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	FOR VEP23655B
R1089	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	FOR VEP23655B
R1200-20	J0JCC0000317	FILTER	21	
R1222,23	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1224-31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	8	
X20	H1A7425B0001	CRYSTAL OSCILLATOR	1	
X500	H0J135500008	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VSC5855	BE HEAT SINK	1	
	VMG1749	COOLING PAD A	1	
	XQN2+B4FN	SCREW	1	
	VGQ8925	COOLING SHEET C3	1	
■ E3	VEP03G89A	CODEC C.B.A.	1	(RTL)FOR AG-HVX200P/AN
■ E3	VEP03G89B	CODEC C.B.A.	1	(RTL)FOR AG-HVX200E/MC/202E
C1-C5	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C7-11	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C13-15	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C16,17	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C50-54	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C55	ECJ0EC1H070C	C.CAPACITOR CH 50V 7P	1	
C56	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C57	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	1	
C58,59	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C60	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C61-66	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C67	ECJ0EC1H070C	C.CAPACITOR CH 50V 7P	1	
C68	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C69	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C70,71	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C72	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C73-75	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C76	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C77-85	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	9	
C86,87	ECJ0EC1H040C	C.CAPACITOR CH 50V 4P	2	
C88	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C89	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	1	
C90	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C91	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C92	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C94,95	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C200	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C201,02	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C203,04	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C205,06	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C207	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C208,09	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C300	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
C301	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C302	F3G1A226A035	T.CAPACITOR CH6.3V 22U	1	
C303	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C304	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C305	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C306	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C309,10	F3G1A226A035	T.CAPACITOR CH6.3V 22U	2	
C311	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C312,13	ECJ0EC1H180J	C.CAPACITOR CH 50V 18P	2	
C314	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C315-18	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	4	
C319	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C320	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C321-41	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	21	
C342	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C343,44	F3G1A476A029	T.CAPACITOR CH 10V 47U	2	
C345	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C400,01	ECJ0EC1H060C	C.CAPACITOR CH 50V 6P	2	
C402-30	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	29	
C431	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C432,33	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	2	
C434	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C435,36	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	FOR VEP03G89B
C437	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	FOR VEP03G89B
C438	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	FOR VEP03G89B
C441	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C444	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C550,51	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C552-55	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C556-59	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	4	
C560-63	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C564-66	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	3	
C567,68	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C569	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C600,01	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C602	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C603	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	1	
C604,05	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C606	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C607-09	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C611,12	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C613	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	1	
C614,15	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C616	ECJ0EC1H330J	C.CAPACITOR CH 50V 33P	1	
C617	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
C618	ECJ0EC1H330J	C.CAPACITOR CH 50V 33P	1	
C619	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C620,21	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C622-27	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C700-12	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	13	
C714	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C716,17	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	2	
C718	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C719	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C720	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
C721,22	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C723	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C724	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	1	
C725-29	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C730	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	1	
C731	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C732	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	1	
C733	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C734	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	1	
C735	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C736	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	1	
C738,39	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C801,02	ECJ0EC1H080C	C.CAPACITOR CH 50V 8P	2	
C805	F3G1A226A035	T.CAPACITOR CH6.3V 22U	1	
C806	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C808	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	1	
C809-22	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	14	
C824	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C825	ECJ0EB1H221K	C.CAPACITOR CH 50V 220P	1	
C826	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
C901	F3G1A226A035	T.CAPACITOR CH6.3V 22U	1	
C902,03	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C904.05	ECUX1H120JCQ	C.CAPACITOR CH 50V 12P	2	
C906,07	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C908	F3G1A226A035	T.CAPACITOR CH6.3V 22U	1	
C909,10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C911	F3G1A226A035	T.CAPACITOR CH6.3V 22U	1	
C912,13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C914-16	ECJ0EB1H221K	C.CAPACITOR CH 50V 220P	3	
C917-19	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	3	
D1	MA147	DIODE	1	
D302,03	MA2SD2400L	DIODE	2	
D400	MA704A	DIODE	1	
D600	MA704A	DIODE	1	
IC1	C0JBAZ001466	IC	1	
IC2-C5	C0JBAZ001728	IC	4	
IC6,C7	C0JBAA000358	IC	2	
IC9	C0JBAB000614	IC	1	
IC10,11	C0JBAZ001728	IC	2	
IC12	C0JBAZ002585	IC	1	
IC50	C0JBAA000340	IC	1	
IC51	C0JBAB000662	IC	1	
IC52	C0JBAF000545	IC	1	
IC53,54	C0JBAZ001537	IC	2	
IC55	C0JBAB000662	IC	1	
IC56	C0JBAZ001537	IC	1	
IC60	C0JBZZ000336	IC	1	
IC61	C2GBC0000173	IC	1	
IC62	C0JBAZ002363	IC	1	
IC64	C0JBAZ002192	IC	1	
IC66	C0JBAA000359	IC	1	
IC200,01	C3ABRG000072	IC	2	
IC300	C0JBAA000359	IC	1	
IC301	C1ZBZ0002602	IC	1	
IC302	C0JBAA000359	IC	1	
IC303	C0EBE0000240	IC	1	
IC304	C0EBK0000066	IC	1	
IC307	C0JBAA000344	IC	1	
IC400	C1AB00002377	IC	1	
IC401	C0JBAZ002610	IC	1	
IC409	C0CBCAC00072	IC	1	
IC411	C0CBCBC00157	IC	1	FOR VEP03G89B
IC412	C0JBAZ002449	IC	1	FOR VEP03G89B
IC414	C0JBAZ002610	IC	1	
IC550-54	C3ABRG000072	IC	5	
IC600	C0CBCBC00156	IC	1	
IC601	C0JBAZ002261	IC	1	
IC602	C0ZBZ0000830	IC	1	
IC603	BH7086KV	IC	1	C1ZBZ0001649
IC604,05	C0JBAZ002261	IC	2	
IC606-09	C0JBAB000614	IC	4	
IC610	C1BB00000861	IC	1	
IC700	C1ZBZ0002976	IC	1	
IC703	C0JBAZ002192	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC705	C0JBAZ002261	IC	1	
IC710	C0JBAZ002261	IC	1	
IC801	C1DB00000956	IC	1	
IC900	C1DB00001535	IC	1	
ID202,03	VVVSI4592C	SOFTWARE	2	DOWNLOADONLY
ID305	VVVSI4590D	SOFTWARE	1	DOWNLOADONLY
ID306	VVVSI4591A	SOFTWARE	1	DOWNLOADONLY
ID706	VVVSI4593A	SOFTWARE	1	DOWNLOADONLY
IP202,03	C3FBQY000004	IC	2	
IP305	C2DBYY000107	IC	1	
IP306	C3EBGG000016	IC	1	
IP706	C3ZBJ0000011	IC	1	
L50	J0JCC0000119	FILTER	1	
L51,52	J0JBC0000019	FILTER	2	
L54	J0JBC0000019	FILTER	1	
L55	J0JCC0000119	FILTER	1	
L56	J0JBC0000019	FILTER	1	
L57	J0JCC0000119	FILTER	1	
L58	J0JBC0000019	FILTER	1	
L60	J0JBC0000019	FILTER	1	
L61	J0JKC0000009	FILTER	1	
L62-68	J0JDC0000102	FILTER	7	
L200,01	J0JCC0000119	FILTER	2	
L202,03	J0JBC0000019	FILTER	2	
L300-04	J0JCC0000119	FILTER	5	
L305	J0JAC0000014	FILTER	1	
L400,01	J0JCC0000119	FILTER	2	
L402-04	J0JKC0000009	FILTER	3	
L405	J0JCC0000119	FILTER	1	FOR VEP03G89B
L550-54	J0JCC0000119	FILTER	5	
L600	J0JKC0000009	FILTER	1	
L601	G1C120JA0036	COIL 12UH	1	
L602	J0JCC0000119	FILTER	1	
L700-02	J0JCC0000119	FILTER	3	
L800	G1C470K00019	COIL 47UH	1	
L802	G1C470K00019	COIL 47UH	1	
L803	J0JKC0000009	FILTER	1	
L804,05	J0JCC0000119	FILTER	2	
L806,07	J0MAB0000140	EMI FILTER	2	
L900	J0JCC0000119	FILTER	1	
L901,02	G1C470K00019	COIL 47UH	2	
L903-08	J0MAB0000140	EMI FILTER	6	
L909	J0JKC0000009	FILTER	1	
P1	K1KB60A00131	CONNECTOR (FEMALE)	1	
P3	K1KY70A00001	CONNECTOR	1	
P4	K1FA170A0004	CONNECTOR (MALE)	1	
P5	K1KY70A00001	CONNECTOR	1	
P6	K1FA170A0004	CONNECTOR (MALE)	1	
P7	K1KA50BA0028	CONNECTOR (MALE)	1	
P8	K1MN24AA0018	CONNECTOR	1	
P9	K1KA05B00201	CONNECTOR (MALE)	1	
P10	K1KA70BA0028	CONNECTOR (FEMALE)	1	
Q2	B1DHCC000035	TRANSISTOR	1	
Q3	B1DFCC000012	TRANSISTOR	1	
Q300	2SB0970X0L	TRANSISTOR	1	
Q301-03	XP0411500L	TRANSISTOR	3	
QR1	UNR9213J0L	TRANSISTOR	1	
QR2	UNR9113J0L	TRANSISTOR	1	
QR301,02	UNR9213J0L	TRANSISTOR	2	
R1	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R2	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3,R4	EXB28V560J	COMBI.R-R 56	2	
R5	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R6	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R7	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R8	EXB28V330J	COMBI.R-R 33	1	
R9	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	1	
R10	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R11-14	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	4	
R15	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	1	
R16	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R17	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R18,19	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	2	
R20,21	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	2	
R22	EXB28V330J	COMBI.R-R 33	1	
R25-28	EXB28V330J	COMBI.R-R 33	4	
R31	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R32	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R33	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R35	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R36	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R37	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R38-40	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R44	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R47,48	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R50-62	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	13	
R63	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R64	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R65	ERJ2GEJ681	M.RESISTOR CH 1/16W 680	1	
R66	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	1	
R67	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R71	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	1	
R72	EXB28V103J	COMBI.R-R 10K	1	
R73,74	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R75,76	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	2	
R80	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R82	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R83	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R84	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R85-88	EXB28V100J	COMBI.R-R 10	4	
R89-91	EXB28V220J	COMBI.R-R 22	3	
R92,93	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R94	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R95,96	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	2	
R97,98	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	2	
R99,00	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R101	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R102	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R103	EXB28V103J	COMBI.R-R 10K	1	
R105,06	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	2	
R108	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R110	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R111	EXB28V220J	COMBI.R-R 22	1	
R114	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R115	EXB28V100J	COMBI.R-R 10	1	
R117	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R118	EXB28V100J	COMBI.R-R 10	1	
R119	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R121	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R122,23	EXB28V100J	COMBI.R-R 10	2	
R126	EXB28V470J	COMBI.R-R 47	1	
R127	EXB28V680J	COMBI.R-R 68	1	
R128	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R129-34	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	6	
R135,36	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	2	
R137-40	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	4	
R141	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R142	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R143	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R144	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R145	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R148	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R149	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R150	EXB28V473J	COMBI.R-R 47K	1	
R151	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R152	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R153	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R154	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R155,56	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	2	
R157	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R158-61	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	4	
R162-65	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	4	
R166-68	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R169	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R177	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R178,79	EXB28V473J	COMBI.R-R 47K	2	
R180-88	EXB28V330J	COMBI.R-R 33	9	
R189	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	1	
R190,91	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	2	
R192	EXB28V330J	COMBI.R-R 33	1	
R193-95	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	3	
R196	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R197	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R210-13	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	4	
R214-17	EXB28V330J	COMBI.R-R 33	4	
R218-21	EXB28V470J	COMBI.R-R 47	4	
R301	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R302	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	1	
R304	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R305	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R306-10	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	5	
R311	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R312	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R313	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R314.15	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R316	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R317	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R318	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R319	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R320	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R322	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R323	EXB28V473J	COMBI.R-R 47K	1	
R324	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R325,26	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R327	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R328-30	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	
R331	EXB28V473J	COMBI.R-R 47K	1	
R333	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R334	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R336	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R337	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R338	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R339	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R341	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R342-44	EXB28V103J	COMBI.R-R 10K	3	
R345-47	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R348	EXB28V103J	COMBI.R-R 10K	1	
R350	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R351,52	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R353	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R356	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R357,58	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R359	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R360	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R361	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R362	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R363	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R364	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R365,66	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R367	EXB28V473J	COMBI.R-R 47K	1	
R368	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R369	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R371-73	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R374	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R375-77	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	
R378-81	EXB28V330J	COMBI.R-R 33	4	
R382	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R383	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R384	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R385-88	EXB28V330J	COMBI.R-R 33	4	
R389	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R390-93	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	4	
R394,95	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R396	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R397	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R398	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R399	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R400-03	EXB28V820J	COMBI.R-R 82	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R404-07	EXB28V470J	COMBI.R-R 47	4	
R409	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R410-12	EXB28V100J	COMBI.R-R 10	3	
R417	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R418	EXB28V100J	COMBI.R-R 10	1	
R419-25	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	7	
R426,27	ERJ2GEJ150	M.RESISTOR CH 1/16W 15	2	
R428-31	EXB28V100J	COMBI.R-R 10	4	
R433-35	EXB28V100J	COMBI.R-R 10	3	
R436-39	EXB28V470J	COMBI.R-R 47	4	
R440	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R441	EXB28V100J	COMBI.R-R 10	1	
R442-47	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	6	
R448	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R449	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R450	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R451	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	1	
R452-60	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	9	
R461-64	EXB28V100J	COMBI.R-R 10	4	
R465	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R466	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R468-71	EXB28V100J	COMBI.R-R 10	4	
R472-79	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	8	
R482	EXB28V103J	COMBI.R-R 10K	1	
R487	EXB28V103J	COMBI.R-R 10K	1	
R490-93	EXB28V100J	COMBI.R-R 10	4	
R494	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP03G89B
R495,96	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	2	
R498-00	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	FOR VEP03G89B
R501-03	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R504	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	FOR VEP03G89B
R508	EXB28V100J	COMBI.R-R 10	1	
R511	EXB28V100J	COMBI.R-R 10	1	
R513	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	FOR VEP03G89B
R515-17	EXB28V100J	COMBI.R-R 10	3	
R518	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R519	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R521,22	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R524	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	1	
R525-27	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R528-30	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	
R536-38	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	3	
R539-41	ERJ2GEJ820	M.RESISTOR CH 1/16W 82	3	
R542	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R543	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R550-65	EXB28V220J	COMBI.R-R 22	16	
R601-03	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R604	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R606	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R607	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R608	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R609,10	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	2	
R611	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R612	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R613	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R614,15	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R616-18	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R619	ERJ2RHD101	M.RESISTOR CH 1/16W 100	1	
R620	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R621	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R624	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R625-27	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R628	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R630,31	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	2	
R632	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R633	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	1	
R634	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R635	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R636	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R637	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	1	
R638,39	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	2	
R701	EXB28V330J	COMBI.R-R 33	1	
R702	EXB28V102J	COMBI.R-R 1K	1	
R703	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R704,05	EXB28V330J	COMBI.R-R 33	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R708	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R709	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R710-12	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	3	
R714	EXB28V472J	COMBI.R-R 4.7K	1	
R716-19	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	4	
R720	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R724-27	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	4	
R736	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	1	
R800,01	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R802	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R803,04	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R805	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R807,08	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R809	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R810	ERJ2RHD471	M.RESISTOR CH 1/16W 470	1	
R811	ERJ2RHD562	M.RESISTOR CH 1/16W 5.6K	1	
R812	ERJ2RHD271	M.RESISTOR CH 1/16W 270	1	
R813	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R814	EXB28V103J	COMBI.R-R 10K	1	
R816-20	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	5	
R821-23	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	3	
R824	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R825	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	1	
R826	ERJ2GEJ512	M.RESISTOR CH 1/16W 5.1K	1	
R827	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R828,29	EXB28V100J	COMBI.R-R 10	2	
R830-38	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	9	
R839-46	EXB28V100J	COMBI.R-R 10	8	
R900	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R901	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	1	
R903,04	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R905,06	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R907	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R908	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R910	EXB28V103J	COMBI.R-R 10K	1	
R911	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R913,14	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R915	ERJ2RKD100	M.RESISTOR CH 1/16W 10	1	
R916	ERJ2RHD121	M.RESISTOR CH 1/16W 120	1	
R917	ERJ2RHD682	M.RESISTOR CH 1/16W 6.8K	1	
R918	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R919-27	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	9	
R928	ERJ2GEJ512	M.RESISTOR CH 1/16W 5.1K	1	
R929,30	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	2	
R931	ERJ2GEJ512	M.RESISTOR CH 1/16W 5.1K	1	
R932	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	1	
R933	ERJ2GEJ512	M.RESISTOR CH 1/16W 5.1K	1	
R935,36	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R937	ERJ2RKD100	M.RESISTOR CH 1/16W 10	1	
R940	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R950	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R954	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R958	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	1	
R959-66	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	8	
R967	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R969	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
X50	H0J330500002	CRYSTAL OSCILLATOR	1	
X52	H0J327200115	CRYSTAL OSCILLATOR	1	
X300	H0J327200115	CRYSTAL OSCILLATOR	1	
X301	H0J135500008	CRYSTAL OSCILLATOR	1	
X400	H0J180500011	CRYSTAL OSCILLATOR	1	
X800	H0J245500021	CRYSTAL OSCILLATOR	1	
X900	H0J245500021	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VSC5802	BE HEAT SINK	1	
	VMG1728	HEAT SINK PAD	1	
	C3FBQY000004	IC	1	
	C3FBQY000004	IC	1	
	VGQ8094	COOLING SHEET CR	5	
	XQN2+B4FN	SCREW	2	
	VJF1256	CABLE CLAMPER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E4	VEP001M6A	R SIDE C.B.A.	1	(RTL)
C1000	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1001-03	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	3	
C1004	F3H1C476A049	T.CAPACITOR CH 16V 47U	1	
C1005	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C1006	F1K1E225A047	C.CAPACITOR CH 25V 2.2U	1	
C1007	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1008	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C1011	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C1012	F3H1V106A040	T.CAPACITOR CH 35V 10U	1	
C1014	F3G1A476A029	T.CAPACITOR CH 10V 47U	1	
C1015	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C1016	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C1017-19	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	3	
C1021	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C1022.23	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C1024,25	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	2	
C1026-28	F1H0J2250003	C.CAPACITOR CH6.3V 2.2U	3	
C1029	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1035	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1036,37	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
D1000-06	MA142WA	DIODE	7	
D1008-11	MA142WA	DIODE	4	
D1013,14	MA142WA	DIODE	2	
IC1000	C0JBAS000249	IC	1	
IC1001	C0JBAC000338	IC	1	
IC1002	C0JBAZ001003	IC	1	
IC1003	C0JBAZ001591	IC	1	
IC1004	C0JBAZ002162	IC	1	
IC1005	C0CBAGE00012	IC	1	
IC1006	C1AB00002422	IC	1	
L1000	G1C100KA0055	COIL 10UH	1	
L1001,02	J0JCC0000405	FERRITE CORE	2	
L1003	G1C100KA0068	COIL 10UH	1	
L1004	G1C220KA0055	COIL 22UH	1	
L1005	J0JCC0000405	FERRITE CORE	1	
L1006	G1C100KA0055	COIL 10UH	1	
L1008	G1C100KA0068	COIL 10UH	1	
P1000	K1MN45B00029	CONNECTOR	1	
P1001	K1MN12BA0059	CONNECTOR	1	
P1002	K1MN06BA0252	CONNECT	1	
P1003	K1MN30BA0059	CONNECTOR	1	
Q1000-02	XP0431N00L	TRANSISTOR	3	
Q1003	2SB09560HL	TRANSISTOR	1	
Q1004	2SD2216J0L	TRANSISTOR	1	
R1000-05	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
R1006,07	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R1008	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1009	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1011	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R1012	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1014-16	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	3	
R1017,18	J0JCC0000407	FILTER	2	
R1019	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1020,21	J0JCC0000407	FILTER	2	
R1023-25	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R1026	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1028-44	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	17	
R1045,46	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1047-54	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	8	
R1055-67	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	13	
R1068-79	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	12	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
SW1000, 01	K0H1BA000442	SWITCH	2	
SW1002	K0D123A00076	SWITCH	1	
SW1003-06	K0H1BA000442	SWITCH	4	
SW1007	K0D122A00126	SWITCH	1	
SW1008	EVQPLPA08	SWITCH	1	
SW1009	K0D122A00126	SWITCH	1	
SW1010	EVQPLPA08	SWITCH	1	
SW1011	K0D112B00055	SWITCH	1	
SW1012	K0D122A00126	SWITCH	1	
SW1013, 14	EVQPLPA08	SWITCH	2	
SW1015	K0KABA000013	SWITCH	1	
SW1016	EVQPLPA08	SWITCH	1	
SW1017-19	K0H1BA000442	SWITCH	3	
■ E5	VEP06G20A	CAM OP1 C.B.A.	1	(RTL)
D100-02	MA142WA	DIODE	3	
P100	K1MN12BA0059	CONNECTOR	1	
P101	K1MN06BA0252	CONNECT	1	
R102, 03	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R106, 07	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
SW100	K0D113B00029	SWITCH	1	
SW101, 02	EVQPLPA08	SWITCH	2	
■ E6	VEP06G21A	CAM OP2 C.B.A.	1	(RTL)
D200	MA142WA	DIODE	1	
P200	K1MN06BA0252	CONNECT	1	
SW200	EVQPLPA08	SWITCH	1	
SW201	K9AA01500015	SWITCH	1	
■ E7	VEP06G22A	CAM OP3 C.B.A.	1	(RTL)
D300, 01	MA142WA	DIODE	2	
P300	K1MN06BA0252	CONNECT	1	
SW300, 01	K0E112A00124	SWITCH	2	
■ E8	VEP01978A	POW C.B.A.	1	(RTL)
C1002, 03	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C1008	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C1009	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1010, 11	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	2	
C1104	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1106	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C1107	ECUX1C683KBV	C.CAPACITOR CH 16V 0.068U	1	
C1108	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C1109	ECUX1H181JCQ	C.CAPACITOR CH 50V 180P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1112	ECJ0EB1E682K	C.CAPACITOR CH 25V 6800P	1	
C1116	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1117	ECJ0EB1E682K	C.CAPACITOR CH 25V 6800P	1	
C1118	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C1120	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C1122	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C1124	ECJ0EB1E682K	C.CAPACITOR CH 25V 6800P	1	
C1125	ECJ0EC1H330J	C.CAPACITOR CH 50V 33P	1	
C1126	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C1127	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C1129	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1132, 33	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	2	
C1134-38	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	5	
C1139-43	ECJ0EB1H331K	C.CAPACITOR CH 50V 330P	5	
C1144, 45	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C1156, 57	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	2	
C1158, 59	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C1160	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	1	
C1161-63	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	3	
C1164, 65	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	2	
C1166	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1167	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1168	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	1	
C1169	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	1	
C1172	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	1	
C1173	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1176	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	1	
C1177	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1179	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1180	F1H1E154A050	C.CAPACITOR CH 25V 0.15U	1	
C1181	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1184	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1186	F3G1C226A022	T.CAPACITOR CH 16V 22U	1	
C1188	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1192	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1195	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C1196	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C1198, 99	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C1200	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C1201	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1205, 06	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C1208	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1209	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C1210	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1214, 15	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C1216	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C1217	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C1218	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1220-22	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	3	
C1224	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1225	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C1226	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C1227	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1228	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C1232	F1G1C473A004	C.CAPACITOR CH 16V 0.047U	1	
C1233, 34	ECJ0EB1C822K	C.CAPACITOR CH 16V 8200P	2	
C1235	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1236, 37	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	2	
C1238	F1G1C473A004	C.CAPACITOR CH 16V 0.047U	1	
C1302	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1304	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C1305	ECUX1C683KBV	C.CAPACITOR CH 16V 0.068U	1	
C1306	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C1307	ECUX1H181JCQ	C.CAPACITOR CH 50V 180P	1	
C1310	ECJ0EB1E682K	C.CAPACITOR CH 25V 6800P	1	
C1314	ECJ0EB1E682K	C.CAPACITOR CH 25V 6800P	1	
C1315	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C1316	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1318	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C1319	ECJ0EB1H332K	C.CAPACITOR CH2.5V 3300P	1	
C1322	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C1323	ECUX1H120JCQ	C.CAPACITOR CH 50V 12P	1	
C1324	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C1325	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1327	ECJ0EC1H820J	C.CAPACITOR CH 50V 82P	1	

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1329	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	1	
C1331	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	1	
C1332-35	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	4	
C1336-39	ECJ0EB1H331K	C.CAPACITOR CH 50V 330P	4	
C1340	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1349	ECJ0EB1H331K	C.CAPACITOR CH 50V 330P	1	
C1350	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C1352	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C1353	EEFUE0J151	E.CAPACITOR 6.3V 150P	1	
C1354-57	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	4	
C1358-61	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	4	
C1366,67	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C1368	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C1369,70	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C1371	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C1372	EEFUE0J151	E.CAPACITOR 6.3V 150P	1	
C1373	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C1374	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1375	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C1377	F1G1C473A004	C.CAPACITOR CH 16V 0.047U	1	
C1378,79	ECJ0EB1C822K	C.CAPACITOR CH 16V 8200P	2	
C1380	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1381,82	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	2	
C1383	F1G1C473A004	C.CAPACITOR CH 16V 0.047U	1	
C1388	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1390	EEFCD1C8R2R	E.CAPACITOR 16V 8.2U	1	
C1601	F1J1A2250009	C.CAPACITOR CH 10V 2.2U	1	
C1602	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1603	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C1606	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C1607	F1H1C224A074	C.CAPACITOR CH 16V 0.22U	1	
C1609	F1J1A2250009	C.CAPACITOR CH 10V 2.2U	1	
C1611	ECJ0EB1H331K	C.CAPACITOR CH 50V 330P	1	
C1641	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1657	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1658-62	F1L2A105A010	C.CAPACITOR CH100V 1U	5	
C1664	F1L2A105A010	C.CAPACITOR CH100V 1U	1	
C1666,67	ECJ2FB1C225K	C.CAPACITOR CH 16V 2.2U	2	
C1668	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
D1001,02	B0ADDJ000019	DIODE	2	
D1003	MAZ80620HL	DIODE	1	
D1004	B0BC4R200016	DIODE	1	
D1005	MA8130-M	DIODE	1	MAZ81300ML
D1006	NSD03A20	DIODE	1	
D1007	MA2S11100L	DIODE	1	
D1009	MA8100-M	DIODE	1	MAZ81000ML
D1010,11	MA2S11100L	DIODE	2	
D1012	MAZ80620HL	DIODE	1	
D1013-16	MA2S11100L	DIODE	4	
D1020	MA2S11100L	DIODE	1	
D1101-07	MA2S11100L	DIODE	7	
D1109,10	MA22D2800L	DIODE	2	
D1111,12	MA2Z00100L	DIODE	2	
D1113	B0HCMM000014	DIODE	1	
D1114	MA2Z00100L	DIODE	1	
D1115	MA2S11100L	DIODE	1	
D1117	MAZ81800HL	DIODE	1	
D1118	MA2S11100L	DIODE	1	
D1120	MA2S11100L	DIODE	1	
D1122,23	MA2S11100L	DIODE	2	
D1128,29	MA22D2800L	DIODE	2	
D1301-06	MA2S11100L	DIODE	6	
D1308	B0JCPD000030	DIODE	1	
D1309,10	MA22D2800L	DIODE	2	
D1311	MA3J70000L	DIODE	1	
D1312	MA8130-M	DIODE	1	MAZ81300ML
D1313	MA2S11100L	DIODE	1	
D1315,16	MA2S11100L	DIODE	2	
D1317	MA22D2800L	DIODE	1	
D1601	MA2S11100L	DIODE	1	
D1642	MA3S132E0L	DIODE	1	
D1651	B0HCMM000014	DIODE	1	
D1652,53	MAZ82700ML	DIODE	2	
D1654	MA2S11100L	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D1655	MAZ82200ML	DIODE	1	
⚠ F1001	K5H402300003	FUSE	1	
IC1001	C0EBH0000254	IC	1	
IC1103	C0DBAZZ00094	IC	1	
IC1105	C0CBCAC00207	IC	1	
IC1301	C0DBAZZ00094	IC	1	
IC1651	BA9743AFV	IC	1	C0DBAZC00010
L1005	G1C3R7MA0240	COIL 3.7UH	1	
L1101-05	J0JBC0000107	FILTER	5	
L1106	G1C330MA0085	COIL 33UH	1	
L1107	G1C181MA0024	COIL 180UH	1	
L1108	G1A470EA0018	COIL 47UH	1	
L1109	G1A680EA0017	COIL 68UH	1	
L1110	G1A220F00008	COIL 22UH	1	
L1111	G1C220M00044	COIL 22UH	1	
L1112-15	G1C100KA0055	COIL 10UH	4	
L1116	G1C4R7MA0072	COIL 4.7UH	1	
L1117	G1C4R7MA0076	COIL 4.7UH	1	
L1118	G1C4R7MA0072	COIL 4.7UH	1	
L1120	G1C3R9MA0024	COIL 3.9UH	1	
L1122	G1C3R9MA0024	COIL 3.9UH	1	
L1124-26	G1C4R7MA0076	COIL 4.7UH	3	
L1127	G1C4R7MA0072	COIL 4.7UH	1	
L1129,30	G1C4R7MA0076	COIL 4.7UH	2	
L1132	G1C3R9MA0024	COIL 3.9UH	1	
L1133,34	G1C4R7MA0076	COIL 4.7UH	2	
L1301-05	J0JBC0000107	FILTER	5	
L1306	G1A470EA0018	COIL 47UH	1	
L1308	G1C220Z00008	COIL 22UH	1	
L1309	G1A220HA0032	COIL 22UH	1	
L1310	G1C150MA0182	COIL 15UH	1	
L1311	G1A220HA0032	COIL 22UH	1	
L1312	G1C100KA0055	COIL 10UH	1	
L1313	G1C4R7MA0076	COIL 4.7UH	1	
L1314	G1C3R9MA0024	COIL 3.9UH	1	
L1316	G1C2R2ZA0040	COIL 2.2UH	1	
L1317	G1C2R2MA0182	COIL 2.2UH	1	
L1318	G1C3R9MA0024	COIL 3.9UH	1	
L1319	G1C100KA0055	COIL 10UH	1	
L1601	J0JBC0000107	FILTER	1	
L1652	G1C150ZA0059	COIL 15UH	1	
L1653	G1C100KA0055	COIL 10UH	1	
P1001	K1KA05BA0104	CONNECTOR (MALE)	1	
P1011	K1KAA0AA0592	CONNECTOR (MALE)	1	
P1012	K1KB40AA0181	CONNECTOR (FEMALE)	1	
Q1001	2SD2216J0L	TRANSISTOR	1	
Q1003	B1DHEC000011	TRANSISTOR	1	
Q1010	B1DHEC000011	TRANSISTOR	1	
Q1011	2SB1462J0L	TRANSISTOR	1	
Q1101-05	2SD2216J0L	TRANSISTOR	5	
Q1106-10	XP4401	TRANSISTOR-RESISTOR	5	
Q1111,12	B1ZBZ0000040	TRANSISTOR	2	
Q1113-16	B1DHCC000035	TRANSISTOR	4	
Q1117	B1DFDL000003	TRANSISTOR	1	
Q1118,19	B1DFCD000012	TRANSISTOR	2	
Q1120	2SD2216J0L	TRANSISTOR	1	
Q1124	B1DHCC000035	TRANSISTOR	1	
Q1125	2SD2216J0L	TRANSISTOR	1	
Q1126	B1DHCC000035	TRANSISTOR	1	
Q1127,28	B1DFCC000012	TRANSISTOR	2	
Q1129	2SD2216J0L	TRANSISTOR	1	
Q1130	B1DHCC000035	TRANSISTOR	1	
Q1301-05	2SD2216J0L	TRANSISTOR	5	
Q1306-09	XP4401	TRANSISTOR-RESISTOR	4	
Q1310	B1DHCC000035	TRANSISTOR	1	
Q1311	XP4401	TRANSISTOR-RESISTOR	1	
Q1312	B1DHCC000035	TRANSISTOR	1	
Q1313,14	B1CHRC000001	TRANSISTOR	2	
Q1315	B1CFRD000002	TRANSISTOR	1	
Q1316	B1CHRC000001	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1317	B1CFRD000002	TRANSISTOR	1	
Q1323	B1DFCD000012	TRANSISTOR	1	
Q1331	2SD2216J0L	TRANSISTOR	1	
Q1601	2SB1462J0L	TRANSISTOR	1	
Q1602	2SD2216J0L	TRANSISTOR	1	
Q1641	B1DHCC000035	TRANSISTOR	1	
Q1651	XP0460100L	TRANSISTOR	1	
Q1653	B1DFDL000003	TRANSISTOR	1	
Q1656	2SD1979	TRANSISTOR	1	
Q1657	2SB1220-R	TRANSISTOR	1	
Q1658	2SD2216J0L	TRANSISTOR	1	
QR1001	UNR9115J0L	TRANSISTOR	1	
QR1002,03	UNR9113J0L	TRANSISTOR	2	
QR1004	UNR911DJ0L	TRANSISTOR	1	
QR1005	UNR9214J0L	TRANSISTOR	1	
QR1007	UNR9213J0L	TRANSISTOR	1	
QR1008	UNR9113J0L	TRANSISTOR	1	
QR1009	UNR9213J0L	TRANSISTOR	1	
QR1101	UNR9113J0L	TRANSISTOR	1	
QR1102	UNR9211J0L	TRANSISTOR	1	
QR1103	UNR9213J0L	TRANSISTOR	1	
QR1104	UNR9113J0L	TRANSISTOR	1	
QR1105	UNR9213J0L	TRANSISTOR	1	
QR1107	UNR9213J0L	TRANSISTOR	1	
QR1301	UNR9113J0L	TRANSISTOR	1	
QR1303	UNR9213J0L	TRANSISTOR	1	
QR1641,42	UNR9213J0L	TRANSISTOR	2	
QR1651	UNR9111J0L	TRANSISTOR	1	
R1001	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1002,03	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	2	
R1004	ERJ2RHD222	M.RESISTOR CH 1/16W 2.2M	1	
R1005,06	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	2	
R1007	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1008	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1009	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R1011	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R1012	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1013	ERJ2RHD222	M.RESISTOR CH 1/16W 2.2M	1	
R1015	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1016	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1017	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R1018	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1020,21	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	2	
R1029	ERJ2RHD683	M.RESISTOR CH 1/16W 68K	1	
R1104	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1105	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1106,07	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1109,10	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1111	ERJ2RHD683	M.RESISTOR CH 1/16W 68K	1	
R1112	ERJ2RHD243	M.RESISTOR CH 1/16W 24K	1	
R1113	ERJ3RBD752	M.RESISTOR CH 1/16W 7.5K	1	
R1114	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R1116,17	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1118	ERJ2RHD123	M.RESISTOR CH 1/16W 12K	1	
R1119	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1120	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R1121	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	1	
R1122	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1123	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R1124	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1125	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1126	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1127	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1129	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1130	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1131	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R1132	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1133	ERJ2RHD123	M.RESISTOR CH 1/16W 12K	1	
R1134	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1135	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1136	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R1137-39	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	3	
R1142	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1143,44	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	2	
R1145	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R1146	ERJ2RHD561	M.RESISTOR CH 1/16W 560	1	
R1147	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R1148	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R1150	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R1151	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1152	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1153	ERJ2RHD561	M.RESISTOR CH 1/16W 560	1	
R1154	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R1155	ERJ2RKD224	M.RESISTOR CH 1/16W 220K	1	
R1156	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1157-61	ERJ8RSJR10	M.RESISTOR CH 1/8W 0.1	5	
R1162	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1163	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1164	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1165	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1166	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1167	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1168	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1169	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1170	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1171	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1172	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1173-76	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	4	
R1178	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1183-87	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R1188,89	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	2	D0GD220JA003
R1190,91	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1194	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1195	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1200,01	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1202	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R1203	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R1204	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R1205	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1208	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1215	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R1216	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1220	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R1222	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1227	ERJ2GEJ824	M.RESISTOR CH 1/16W 820K	1	
R1229,30	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	2	
R1231	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R1232,33	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1234	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1236	ERJ2GEJ824	M.RESISTOR CH 1/16W 820K	1	
R1238	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1240	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1247,48	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1251	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1252-58	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	7	
R1260	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1262	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1272	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1274	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1301	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1302	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1303	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R1305	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1307,08	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1309	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1310	ERJ2RHD113	M.RESISTOR CH 1/16W 11K	1	
R1311	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R1312	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1313	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R1314	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1315	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1316	ERJ2RHD123	M.RESISTOR CH 1/16W 12K	1	
R1317	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R1318	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R1319	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1320	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R1321	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R1322	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1324	ERJ2RHD222	M.RESISTOR CH 1/16W 2.2M	1	
R1325	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1326	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1327	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R1329	ERJ2RHD123	M.RESISTOR CH 1/16W 12K	1	
R1330	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1331	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1332	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R1333	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1334	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R1335	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R1336	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R1337	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1339	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1340	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1341	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R1342	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R1343	ERJ2RHD123	M.RESISTOR CH 1/16W 12K	1	
R1345	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1346	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1347	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1348	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R1349	ERJ2RKD154	M.RESISTOR CH 1/16W 150K	1	
R1350	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1351	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R1352	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1353-56	ERJ8RSJR10	M.RESISTOR CH 1/8W 0.1	4	
R1357	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1358	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1359	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1360	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1361	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1362	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1363	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1364	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1365	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1366-69	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	4	
R1374	ERJ8RSJR10	M.RESISTOR CH 1/8W 0.1	1	
R1375-78	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R1379	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1380	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1381	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1383	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1384	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1386-88	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	D0YDR0000005
R1395	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R1409-15	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	7	
R1417	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1418	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1422	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R1428	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1429	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1601	ERJ2RHD243	M.RESISTOR CH 1/16W 24K	1	
R1602	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R1603,04	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	2	
R1606	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R1607	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1608	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1609	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1610	ERJ2RHD513	M.RESISTOR CH 1/16W 51K	1	
R1612	ERJ2RHD513	M.RESISTOR CH 1/16W 51K	1	
R1613	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R1614	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1615	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1616	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R1617	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1619	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R1625	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1641	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R1642	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1644	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	1	
R1648	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1661	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R1662	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1669	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1672	ERJ6GEYJ5R6	M.RESISTOR CH 1/10W 5.6	1	D0GD5R6JA003
R1676	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1681	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1682,83	ERJ6GEYJ1R0	M.RESISTOR CH 1/10W 1	2	
R1684	ERJ6GEYJ2R2	M.RESISTOR CH 1/10W 2.2	1	
R1685	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1686,87	ERJ2RKD224	M.RESISTOR CH 1/16W 220K	2	
R1688	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1689	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	1	
R1693	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R1694	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
T1101	G5DYA0000109	TRANSFORMER	1	
■ E9	VEP03G92B	P2 CARD C.B.A.	1	(RTL)
C106	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C107	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C108	EEFUE0J151	E.CAPACITOR 6.3V 150P	1	
C109	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	1	
C201	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C202-04	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	3	
C205	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C206,07	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	2	
C208	F1G1A474A018	C.CAPACITOR CH 10V 0.47U	1	
C209	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C210	F1G1A474A018	C.CAPACITOR CH 10V 0.47U	1	
C211	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C214	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C215	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C216	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C217	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C218,19	ECJ0EB1H271K	C.CAPACITOR CH 50V 270P	2	
C221	ECUX1H181JCQ	C.CAPACITOR CH 50V 180P	1	
C222	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C223	ECUX1H181JCQ	C.CAPACITOR CH 50V 180P	1	
C224	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C225,26	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	2	
C229	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C230-35	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	6	
C238-42	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	5	
C243,44	ECUX1H181JCQ	C.CAPACITOR CH 50V 180P	2	
C245	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C400	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C401,02	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	2	
C403-05	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	3	
C406	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C407-19	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	13	
C420	ECJ0EC1H080C	C.CAPACITOR CH 50V 8P	1	
C421	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C422	ECJ0EC1H080C	C.CAPACITOR CH 50V 8P	1	
C423	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C424	ECJ0EB1H102K	C.CAPACITOR CH 50V 1000P	1	
D100-03	LNJ115W88RA	DIODE	4	
D400	B0KB00000041	DIODE	1	
D401,02	D4ED12700007	DIODE	2	
IC200	C1DB00001181	IC	1	
IC201	C1DB00001179	IC	1	
IC202	C1DB00001209	IC	1	
IC203,04	C0JBAA000359	IC	2	
IC400	C0CBAAD00023	IC	1	
IC401	C1DB00001355	IC	1	
J100,01	K4CD01000017	TERMINAL	2	
L100	J0JBC0000019	FILTER	1	
L200-02	J0JBC0000019	FILTER	3	
L204	J0JBC0000019	FILTER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L205-08	J0JKC0000009	FILTER	4	
L209-11	J0JDC0000102	FILTER	3	
L400-03	J0JBC0000019	FILTER	4	
L405,06	J0JCC0000122	FILTER	2	
P100	K1KA70BA0028	CONNECTOR (FEMALE)	1	
P101	K1KA70A00051	CONNECTOR (MALE)	1	
P102	K1KA70BA0028	CONNECTOR (FEMALE)	1	
P104	K1MN16BA0059	CONNECTOR	1	
P200	K1NA68E00091	CONNECTOR	1	
P201	K1NA68E00090	CONNECTOR	1	
P400	K1FY105E0001	CONNECTOR	1	
Q100	B1DHCC000035	TRANSISTOR	1	
Q102,03	XP0411500L	TRANSISTOR	2	
QR100	UNR211500L	TRANSISTOR	1	
R100-09	EXB28V330J	COMBI.R-R 33	10	
R110	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R111-15	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	5	
R117-20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R121	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R122	EXB28V330J	COMBI.R-R 33	1	
R123,24	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	2	
R126	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R127	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R128,29	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R134-40	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	7	
R145	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R146	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R148,49	ERJ2GEJ181	M.RESISTOR CH 1/16W 180	2	
R150	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R151	ERJ2GEJ181	M.RESISTOR CH 1/16W 180	1	
R152	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R153	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R154	EXB28V473J	COMBI.R-R 47K	1	
R155,56	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	2	
R157,58	ERJ2GEJ181	M.RESISTOR CH 1/16W 180	2	
R159,60	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	2	
R200-10	EXB28V100J	COMBI.R-R 10	11	
R211	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R212	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R213	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R214	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R215	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R217	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R218	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R219	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	1	
R221	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R222	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R223	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R224	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R226	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R229-31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R233	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R235	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R238	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R242-44	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R245	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R248,49	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R251	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R253	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R256	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R258	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R260	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R261	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R262-76	EXB28V750J	COMBI.R-R 75	15	
R277-79	ERJ2GEJ750	M.RESISTOR CH 1/16W 75	3	
R280,81	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R282	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R286	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R287	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R292	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R293	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R297	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R298,99	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R300-02	ERJ2GEJ750	M.RESISTOR CH 1/16W 75	3	
R303-17	EXB28V750J	COMBI.R-R 75	15	
R318	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R319	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R400-11	EXB28V100J	COMBI.R-R 10	12	
R412	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R413,14	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R416	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R417	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R418	ERJ6ENF2431	M.RESISTOR CH 1/10W 430	1	
R419,20	ERJ6ENF39R2	M.RESISTOR CH 1/10W 39	2	
R421	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R422	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R423	ERJ6ENF2432	M.RESISTOR CH 1/10W 4.3K	1	
R424	ERJ2GEJ1R0	M.RESISTOR CH 1/16W 1	1	
R426	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R427	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R428	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R429	ERJ2GEJ1R0	M.RESISTOR CH 1/16W 1	1	
TH100	D4CC11030012	THERMISTOR	1	
U200	K1YYZZ000066	CONNECTOR ACCESSORY	1	
U202	K1YYZZ000065	CONNECTOR ACCESSORY	1	
X400	H0J300500011	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VMP8554	P2 CARD ANGLE A	1	
	VMP8555	P2 CARD ANGLE B	1	
	VMZ3478	CARD SLOT BARRIER B	1	
	VMZ3630	P2 CAR4D BARRIER2	1	
	XQN2+B4FN	SCREW	4	
	VEE1C36	EGG LUG CABLE	1	
■ E10	VEP03G91A	MECHA IF C.B.A.	1	(RTL)
C2	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C4	ECJ0EC1H470J	C.CAPACITOR CH 50V 47P	1	
C5	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C6	ECJ0EB1H681K	C.CAPACITOR CH 50V 680P	1	
C7	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C8	F3H1C476A049	T.CAPACITOR CH 16V 47U	1	
C9	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C10	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C12-15	ECJ0EC1H080D	C.CAPACITOR CH 50V 8P	4	
C16-20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C21	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C22	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C24	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C25	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C26	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C27	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C28	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C29	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C30	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C31	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C33	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C34	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C35	ECJ0EC1H470J	C.CAPACITOR CH 50V 47P	1	
C36-41	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C42	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C43-49	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	7	
D1	MA3S13300L	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC1	AN3732FJMEFV	IC	1	
IC2	C0ABAA000046	IC	1	
IC3	C1AB00002122	IC	1	
IC4-10	C0JBAB000634	IC	7	
L1	G1C220KA0055	COIL 22UH	1	
L2	G1C101KA0055	COIL 100UH	1	
P1	K1MN71BA0132	CONNECTOR	1	
P2	K1KA02BA0047	CONNECTOR (MALE)	1	
P3	K1MN08AA0068	CONNECTOR	1	
P4	K1MN08BA0060	CONNECTOR	1	
P5	K1MN10BA0051	CONNECTOR	1	
P6,P7	K1MN18BA0051	CONNECTOR	2	
Q1	2SD1820A0L	TRANSISTOR	1	
R2-R5	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	4	
R9-14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
R15,16	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R17,18	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	2	
R20	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R23	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R24	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R25	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R26-29	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R30-33	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	4	
R34	ERJ2RHD563	M.RESISTOR CH 1/16W 56K	1	
R35	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R36	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R37,38	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	2	
R39	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R40,41	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	2	
R42	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R43	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R44	ERJ8GEYJR68	M.RESISTOR CH 1/8W 0.68	1	
R45,46	ERJ8RQJR27	M.RESISTOR CH 1/8W 0.27	2	
R47	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R48	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R49	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R50	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R52-55	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	4	
R56	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R57	ERJ2GEJ824	M.RESISTOR CH 1/16W 820K	1	
R58	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R59-61	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R62	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
SW1	K0L1BB000022	SWITCH	1	
■ E11	VEP04904A	SIDE JACK C.B.A.	1	(RTL)
C105,06	ECJ1VB1H102K	C.CAPACITOR CH 50V 1000P	2	
C107	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C108	ECJ1VB1H102K	C.CAPACITOR CH 50V 1000P	1	
C109	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C111,12	ECJ1VB1H102K	C.CAPACITOR CH 50V 1000P	2	
J100	K2HD103B0015	JACK	1	
J101	K2HC106B0010	AC POWER PLUG	1	
P101	K1MN12AA0018	CONNECTOR	1	
R201-06	ERJ3RBD331	M.RESISTOR CH 1/16W 330	6	
■ E12	VEP001P2A	SD CARD C.B.A.	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C400	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C401	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C402	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
D400	LNJ310M6URA	DIODE	1	
P400	K1NA13E00009	CONNECTOR	1	
P401	K1MN16AA0018	CONNECTOR	1	
R400	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R401-06	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	6	
R407-09	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
■ E13	VEP001N3A	BOTTOM CON C.B.A.	1	(RTL)
P601,02	K1KA70A00051	CONNECTOR (MALE)	2	
■ E14	VEP001M1A	TOP OP C.B.A.	1	(RTL)
C100,01	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	2	
C102-04	ECJ1VB1H102K	C.CAPACITOR CH 50V 1000P	3	
C200	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C201	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C202	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C203,04	F3H1C226A063	T.CAPACITOR CH 25V 22U	2	
C205,06	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C207	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C208	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C210-13	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	4	
C214,15	F3H1A107A072	T.CAPACITOR CH 10V 100U	2	
C216	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C217	F1K1A225A007	C.CAPACITOR CH 10V 2.2U	1	
C218,19	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	2	
C220	F1K1A225A007	C.CAPACITOR CH 10V 2.2U	1	
C221	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C222	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C223	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C224-26	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	3	
C227-29	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	3	
C230	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C231	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C232	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C233,34	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	2	
C235	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C236	F3H1A107A072	T.CAPACITOR CH 10V 100U	1	
C237	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C238	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	1	
C239	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C240	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	1	
C241	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C242	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C243-45	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	3	
C246	F3H1A107A072	T.CAPACITOR CH 10V 100U	1	
C249,50	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C251,52	F3G1A226A035	T.CAPACITOR CH6.3V 22U	2	
C256	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C257,58	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	2	
C261,62	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	2	
C267	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C272	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C273	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C274	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C275	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C278	ECJ2FB0J106K	C.CAPACITOR CH 50V 10U	1	
C279	F3H1C476A064	T.CAPACITOR CH 16V 47U	1	
C284,85	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C286-89	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C300	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C301	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C302	ECJ0EB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C303,04	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C305	F1K1E225A047	C.CAPACITOR CH 25V 2.2U	1	
C306-09	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C310	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C311,12	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C313	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C314,15	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C316	F1K1A225A007	C.CAPACITOR CH 10V 2.2U	1	
C317,18	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C319	F1K1A225A007	C.CAPACITOR CH 10V 2.2U	1	
C320	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C321	F1K1A225A007	C.CAPACITOR CH 10V 2.2U	1	
C322	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C323	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C324	F1K1E225A047	C.CAPACITOR CH 25V 2.2U	1	
C500-04	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C601	ECJ2VF1C105Z	C.CAPACITOR CH 16V 1U	1	
C603	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C605	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C607	F3H1V106A049	T.CAPACITOR CH 35V 10U	1	
C608,09	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	2	
C610-13	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	4	
C618,19	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	2	
C620-24	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	5	
C625	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C626	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	1	
C627	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C700	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	1	
C702	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C724,25	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	2	
D200	MA2SD2400L	DIODE	1	
D202	MA3J142D0L	DIODE	1	
D203	MAI42WK	DIODE	1	
D204	MA3J14300L	DIODE	1	
D205	MA142WK	DIODE	1	
D211	MA3J142D0L	DIODE	1	
D212	MA142WK	DIODE	1	
D300	MA111	DIODE	1	
D302	MA3S13300L	DIODE	1	
D400-05	MA3S781D0L	DIODE	6	
D601	MA111	DIODE	1	
IC100	C0CBCDC00008	IC	1	
IC200	C0JBAB000675	IC	1	
IC201,02	C1AB00001894	IC	2	
IC203	C0CBCBC00053	IC	1	
IC207	C0BBBA000024	IC	1	
IC210	C0ABZA000033	IC	1	
IC211	C0ABBA000163	IC	1	
IC300	C0JBAZ001003	IC	1	
IC301	C0JBAZ001591	IC	1	
IC303	C1AB00002422	IC	1	
IC304	C0JBAZ002162	IC	1	
IC500	C0JBAB000675	IC	1	
IC501,02	C0JBAQ000148	IC	2	
IC503	C0JBAS000251	IC	1	
IC504	C0JBAZ001648	IC	1	
IC601	AN77L09M	IC	1	
IC602,03	C0ZBZ0000043	IC	2	
IC604,05	C0ABBB000271	IC	2	
L200,01	J0JCC0000119	FILTER	2	
L202	G1C100KA0055	COIL 10UH	1	
L203	J0JCC0000119	FILTER	1	
L204,05	J0JAC0000014	FILTER	2	
L206-16	G1C100KA0055	COIL 10UH	11	
L218	G1C100KA0055	COIL 10UH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L300,01	G1C220KA0055	COIL 22UH	2	
L302	G1C100KA0055	COIL 10UH	1	
L303-07	J0JCC0000405	FERRITE CORE	5	
L600,01	J0JBC0000019	FILTER	2	
P100	K1MN45B00033	CONNECTOR	1	
P101	K1KY70A00002	CONNECTOR	1	
P102	K1MN06BA0252	CONNECT	1	
P103	K1MN12BA0059	CONNECTOR	1	
P104	K1KA50AA0044	CONNECTOR (MALE)	1	
P105	K1MN06BA0252	CONNECT	1	
P107	K1KA80BA0028	CONNECTOR (MALE)	1	
P600	K1KA12BA0108	CONNECTOR (MALE)	1	
Q200-02	B1ABBE000002	TRANSISTOR	3	
Q203,04	2SD1979	TRANSISTOR	2	
Q205,06	2SB1219A	TRANSISTOR	2	
Q211,12	2SD1979	TRANSISTOR	2	
Q301,02	B1ADGD000005	TRANSISTOR	2	
Q303	2SB1218A0L	TRANSISTOR	1	
Q304	XP1501	TRANSISTOR-RESISTOR	1	XP0150100L
Q305	XP0431N00L	TRANSISTOR	1	
Q306	2SD2216J0L	TRANSISTOR	1	
Q307	2SB1462J0L	TRANSISTOR	1	
Q700	2SD1819A-R	TRANSISTOR	1	
QR200	UNR9113J0L	TRANSISTOR	1	
QR204	UNR9113J0L	TRANSISTOR	1	
QR205	UNR9213J0L	TRANSISTOR	1	
QR207,08	UNR9213J0L	TRANSISTOR	2	
QR300,01	UNR9213J0L	TRANSISTOR	2	
QR600-03	UNR9213J0L	TRANSISTOR	4	
QR604-07	UNR9113J0L	TRANSISTOR	4	
R100	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R102,03	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R105	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R107,08	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R110	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R111	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
RI13-19	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	7	
R120,21	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R200	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R201	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R203,04	ERJ2RKD100	M.RESISTOR CH 1/16W 10	2	
R205	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R206	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R207,08	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	2	
R209	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R210	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R211,12	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	2	
R213,14	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R218-20	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R224-26	ERJ3RED680	M.RESISTOR CH 1/16W 68	3	
R230,31	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R232,33	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R236	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R237	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R238	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R239	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R243	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R245	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R248,49	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R250	ERJ2GEJ203	M.RESISTOR CH 1/16W 20K	1	
R253	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R255,56	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R257	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R258	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R259	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R260	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R261	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R269,70	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R271	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R273	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R277,78	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R279	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	1	
R280,81	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	2	
R282,83	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R284-87	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	4	
R288	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	1	
R290	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R291,92	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R293	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R295	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R300	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R303	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R304	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R305	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R306	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R308	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	1	
R309	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R310	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R311	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R312	ERJ2RHD203	M.RESISTOR CH 1/16W 20K	1	
R313	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R314-16	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R317	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R319	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R320	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	1	
R321	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R322	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R323	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R324	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R325	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R500-04	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	5	
R507,08	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R509,10	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R600-03	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	4	
R604-11	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	8	
R612-15	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	4	
R620-23	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	4	
R626	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R700	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R701	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R704	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R726,27	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
SW400-11	K0H1BA000442	SWITCH	12	
		MISCELLANEOUS		
	VGQ8837	TOP OPERATION BUTTON	1	
	VMZ3629	TOP PB BARRIER	1	
	XQN2+BJ4FJK	SCREW	3	
■ E15	VEP001M2B	BACK PANEL C.B.A.	1	(RTL)
B1	N4EZH27Z0001	BATTERY	1	
C1	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C2	F3G1C156A028	T.CAPACITOR CH 16V 15U	1	
C50	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C51	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C52	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C54	F3H1C226A063	T.CAPACITOR CH 25V 22U	1	
C55	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	1	
C56,57	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C58	F3H1V106A049	T.CAPACITOR CH 35V 10U	1	
C59	F3H1C226A063	T.CAPACITOR CH 25V 22U	1	
D1	B3AAB0000037	DIODE	1	
D2	B3ABB0000086	LED	1	
D3	B3ADB0000026	LED	1	
D4	B3AAB0000129	LED	1	
D5,D6	MA142WA	DIODE	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D7-10	MA142K	DIODE	4	
D50	MA111	DIODE	1	
D300	B0KB00000041	DIODE	1	
IC1	VEK8283	REMOTE CONTROL RECEIVER	1	B3RZB0000001
IC50	C0ABBB000271	IC	1	
IC51	AN77L09M	IC	1	
J200	K2HC106B0010	AC POWER PLUG	1	
L201,02	J0JBC0000014	FILTER	2	
L300,01	J0MAB0000116	FILTER	2	
L309	J0JCC0000407	FILTER	1	
P1	K1MN24BA0050	CONNECTOR	1	
P50	K1KA12BA0108	CONNECTOR (MALE)	1	
P300	K2YZ04000023	PULG JACK	1	
P301	K1KA05B00201	CONNECTOR (MALE)	1	
R1-R5	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R6	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R7	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R8	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R9	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R10	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R11,12	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	2	
R50	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R51	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R52	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R53	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R54	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R55	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R56,57	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R59,60	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R63,64	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R66	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R201,02	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R203,04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
⚠ R300-03	K5H1012A0021	FUSE	4	
R308	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R310	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
SW1	K0G119A00024	SWITCH	1	
SW2	K0D112B00055	SWITCH	1	
SW3,W4	K0H1BA000442	SWITCH	2	
VR50,51	D2BBA14A0002	V.RESISTOR 10K	2	
		MISCELLANEOUS		
	VMZ3644	BACK PB SPACER	1	
■ E16	VEP04902A	SIDE JACK C.B.A.	1	(RTL)
C100,01	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	2	
C102	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C103,04	ECJ1VB1H682K	C.CAPACITOR CH 50V 6800P	2	
C119	EEEFK1K3R3R	C.CAPACITOR CH 80V 3.3U	1	
C120	F2A1J330A452	E.CAPACITOR 63V 33U	1	
C200	ECJ2VF1C105Z	C.CAPACITOR CH 16V 1U	1	
C201	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C205	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C206	F3H1V106A049	T.CAPACITOR CH 35V 10U	1	
C207	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	1	
C208,09	ECJ1VC1H471J	C.CAPACITOR CH 50V 470P	2	
C210	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	1	
C211	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C212,13	F2A2A1050001	E.CAPACITOR 100V 1M	2	
C214	F1J2A104A023	C.CAPACITOR CH100V 0.1U	1	
C216	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C219, 20	ECJ1VC1H330J	C. CAPACITOR CH 50V 33P	2	
C222	ECJ1VF1E104Z	C. CAPACITOR CH 25V 0. 1U	1	
C224	ECJ1VC1H330J	C. CAPACITOR CH 50V 33P	1	
C226	ECJ1VC1H330J	C. CAPACITOR CH 50V 33P	1	
C228	ECJ1VF1E104Z	C. CAPACITOR CH 25V 0. 1U	1	
C231	ECJ3YB1E106K	C. CAPACITOR CH 25V 10U	1	
C232	ECJ1VF1E104Z	C. CAPACITOR CH 25V 0. 1U	1	
D100	MA3S132D0L	DIODE	1	
D101	B3GA00000053	DIODE	1	
D102, 03	D4ED1220A006	VARISTOR	2	
D104-06	D4ED1270A008	VARISTOR	3	
D107	MA3062M	DIODE	1	
D111-13	D4ED1270A008	VARISTOR	3	
D203	MA111	DIODE	1	
D206, 07	MA3J14300L	DIODE	2	
IC200	AN77L09M	IC	1	
IC204	C0ABBB000396	IC	1	
IC206	C0ABBB000271	IC	1	
IC209	C0JBAR000432	IC	1	
IC210	C0ABAB000121	IC	1	
J100	K2HA3YYA0001	JACK	1	
J101	K2HZ104A0002	S TERMINAL JACK	1	
J200	K1AB103A0011	CONNECTOR (FEMALE)	1	
L100, 01	J0JBC0000014	FILTER	2	
L201	J0JBC0000014	FILTER	1	
L203, 04	J0JBC0000014	FILTER	2	
L205, 06	G1C100JA0036	COIL 10UH	2	
P100	K1MN45B00033	CONNECTOR	1	
P101	K1MN12BA0059	CONNECTOR	1	
P102	K1FY114A0001	CONNECTOR	1	
Q100	2SD1819A-R	TRANSISTOR	1	
Q101	2SD103000L	TRANSISTOR	1	
Q102	2SD182400L	TRANSISTOR	1	
Q201	2SB1220-R	TRANSISTOR	1	
Q202	2SD182400L	TRANSISTOR	1	
QR201	UNR9213J0L	TRANSISTOR	1	
QR204	UNR9113J0L	TRANSISTOR	1	
QR205-07	UNR9213J0L	TRANSISTOR	3	
QR208	UNR9113J0L	TRANSISTOR	1	
QR209	UNR9213J0L	TRANSISTOR	1	
R100	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R103	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1. 8K	1	
R104	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
R105	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R106	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R107	ERJ3GEYJ106	M. RESISTOR CH 1/16W 10M	1	
R108	ERJ6GEYJ225	M. RESISTOR CH 1/10W 2. 2M	1	D0GD225JA003
R109-13	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	5	
R114	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R115-18	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	4	
R120, 21	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R124	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R127-29	ERJ3RED680	M. RESISTOR CH 1/16W 68	3	
R130-32	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	3	D0YDR0000005
R137-42	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	6	
R143	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R200	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R203, 04	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	
R206	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R207, 08	ERJ12YJ682	M. RESISTOR CH 1/2W 6. 8K	2	
R209	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R210	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R211, 12	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R213	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R214	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R216, 17	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	2	
R218, 19	ERJ3RBD272	M. RESISTOR CH 1/16W 2. 7K	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R221	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R223	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R226, 27	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	2	
R230, 31	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	2	
R233	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	1	
R235	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	1	
R236	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R237	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R240	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R241, 42	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R243	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R246	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
SW200	K0D142A00023	SWITCH	1	
TH100	D4CC11030012	THERMISTOR	1	
		MISCELLANEOUS		
	VGH4875	JACK NAME PLATE 1	1	
■ E17	VEP04903A	EXT MIC2 C. B. A.	1	(RTL)
C300	ECJ2VF1C105Z	C. CAPACITOR CH 16V 1U	1	
C301	ECJ1VB1C104K	C. CAPACITOR CH 16V 0. 1U	1	
C305	ECJ1VB1C104K	C. CAPACITOR CH 16V 0. 1U	1	
C306	F3H1V106A049	T. CAPACITOR CH 35V 10U	1	
C307	ECJ1VF1H103Z	C. CAPACITOR CH 50V 0. 01U	1	
C308, 09	ECJ1VC1H471J	C. CAPACITOR CH 50V 470P	2	
C310	ECJ3YB1E106K	C. CAPACITOR CH 25V 10U	1	
C311	ECJ1VF1E104Z	C. CAPACITOR CH 25V 0. 1U	1	
C312, 13	F2A2A1050001	E. CAPACITOR 100V 1M	2	
C314	F1J2A104A023	C. CAPACITOR CH100V 0. 1U	1	
C316	ECJ1VF1E104Z	C. CAPACITOR CH 25V 0. 1U	1	
C319, 20	ECJ1VC1H330J	C. CAPACITOR CH 50V 33P	2	
C322	ECJIVFIE104Z	C. CAPACITOR CH 25V 0. 1U	1	
C324	ECJ1VC1H330J	C. CAPACITOR CH 50V 33P	1	
C326	ECJ1VC1H330J	C. CAPACITOR CH 50V 33P	1	
C328	ECJ1VF1E104Z	C. CAPACITOR CH 25V 0. 1U	1	
C331	ECJ3YB1E106K	C. CAPACITOR CH 25V 10U	1	
C332	ECJ1VF1E104Z	C. CAPACITOR CH 25V 0. 1U	1	
D303	MA111	DIODE	1	
D306, 07	MA3J14300L	DIODE	2	
IC300	AN77L09M	IC	1	
IC304	C0ABBB000396	IC	1	
IC306	C0ABBB000271	IC	1	
IC309	C0JBAR000432	IC	1	
IC310	C0ABAB000121	IC	1	
J300	K1AB103A0011	CONNECTOR (FEMALE)	1	
L301	J0JBC0000014	FILTER	1	
L303, 04	J0JBC0000014	FILTER	2	
L305, 06	G1C100JA0036	COIL 10UH	2	
P300	K1MN12BA0059	CONNECTOR	1	
Q301	2SB1220-R	TRANSISTOR	1	
Q302	2SD182400L	TRANSISTOR	1	
QR301	UNR9213J0L	TRANSISTOR	1	
QR304	UNR9113J0L	TRANSISTOR	1	
QR305-07	UNR9213J0L	TRANSISTOR	3	
QR308	UNR9113J0L	TRANSISTOR	1	
QR309	UNR9213J0L	TRANSISTOR	1	
R300	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R303, 04	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R306	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R307,08	ERJ12YJ682	M.RESISTOR CH 1/2W 6.8K	2	
R309	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R310	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R311,12	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R313	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R314	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R316,17	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R318,19	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	2	
R321	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R323	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R326,27	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R330,31	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R333	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R335	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R336	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R337	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R340	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R341,42	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R343	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R346	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R349	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
SW300	K0D142A00023	SWITCH	1	
■ E18	VEP04906A	HANDLE C.B.A.	1	(RTL)
C1-C4	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	4	
C5	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C6	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C7	F3H1C226A063	T.CAPACITOR CH 25V 22U	1	
C8	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C9	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C12,13	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	2	
C14	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C15	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C16,17	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C18	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C19,20	ECUV1C823KBV	C.CAPACITOR CH 16V 0.082U	2	F1H1C823A071
C21,22	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	2	
C23,24	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C25	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C26,27	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C28	F3G1A226A035	T.CAPACITOR CH6.3V 22U	1	
C29	F3H1C226A063	T.CAPACITOR CH 25V 22U	1	
C31,32	ECJ3YB1E106K	C.CAPACITOR CH 25V 10U	2	
D1,D2	MA3S781D0L	DIODE	2	
IC1	C0ABCB000051	IC	1	
IC2,C3	C0ABBA000166	IC	2	
L1	G1C100KA0055	COIL 10UH	1	
P1	K1MN24BA0059	CONNECTOR	1	
P2	K1MN10BA0059	CONNECTOR	1	
P3,P4	K1KA04BA0014	CONNECTOR (MALE)	2	
Q1	2SD182400L	TRANSISTOR	1	
Q2,Q3	2SD1819A-R	TRANSISTOR	2	
Q4	2SD182400L	TRANSISTOR	1	
R2,R3	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	2	
R4-R8	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R20-23	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	4	
R24-27	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R28,29	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
R30	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R31	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R32-34	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R35-38	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	4	
R39,40	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R41-44	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R45,46	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R47,48	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R49,50	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	2	
R51,52	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	2	
R53,54	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	2	
R55,56	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R57,58	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
R59	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R60,61	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
SW1	K0D123B00044	SWITCH	1	
SW2,W3	K0H1BA000433	SWITCH	2	
SW4	K0H1BA000303	REC SW	1	
		MISCELLANEOUS		
	VYQ3732	HANDLE ZOOM U	1	
	VGQ6881	T/W BUTTON HOLDER	1	
	VGU9208	HANDLE T/W BUTTON	1	
	VMG1480	HANDLE T/W BUTTON RUBBER	1	
	VMS7185	HANDLE ZOOM SHAFT	1	
	XUC15FP	E-RING	2	
	VGQ6880	HANDLE S/S HOLDER	1	
	XQN2+BJ4FJK	SCREW	2	
■ E19	VEP001M3A	REMOCON C.B.A.	1	(RTL)
C101	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C102	F3G1C156A028	T.CAPACITOR CH 16V 15U	1	
D101	B3AAB0000129	LED	1	
IC101	VEK8283	REMOTE CONTROL RECEIVER	1	B3RZB0000001
P101	K1MN10AA0058	CONNECTOR	1	
R101	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R102	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
■ E20	VEP29166A	EVF CONNECT C.B.A.	1	(RTL)
C651	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
D651	MA8056-MH	DIODE	1	
P651	K1MN22BA0080	CONNECTOR	1	
P652	K1MN20BA0081	CONNECTOR	1	
P653	K1KA02BA0014	CONNECTOR (MALE)	1	
R651-71	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	21	
■ E21	VEP001M4A	POWER SW C.B.A.	1	(RTL)
P101	K1MN06BA0252	CONNECT	1	
SW101	K0L1BA000015	SWITCH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
		MISCELLANEOUS		
	VMG0763	SWITCH	1	
■ E22	VEP01979A	BATTERY C.B.A.	1	(RTL)
L3-L6	J0JHC0000018	FILTER	4	
P1	K1KA05BA0104	CONNECTOR (MALE)	1	
P3	K1KA02BA0104	CONNECTOR (MALE)	1	
R4	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
■ E23	VEP01971A	DC IN C.B.A.	1	(RTL)
J31	VJS3381	CONNECTOR (FEMALE)	1	K2EC2B000001
■ E24	VEP001M5A	ZOOM SW C.B.A.	1	(RTL)
P1	K1MN06BA0134	CONNECTOR	1	
SW1	EVQQW101M	SWITCH	1	
VR1	D2B1B15B0001	V.RESISTOR 100K	1	
■ E25	VEP08346A	LCD LEV C.B.A.	1	(RTL)
C1003	F3G1C106A028	T.CAPACITOR CH 16V 10U	1	
C1014	F3F1A106A046	T.CAPACITOR CH 10V 10U	1	
C1017	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C1019	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C1025	ECJ2FB1C225K	C.CAPACITOR CH 16V 2.2U	1	
C1026	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
D1001	MA8120-M	DIODE	1	MAZ81200ML
L1005	G1C100KA0068	COIL 10UH	1	
P1001	K1MN27B00036	CONNECTOR	1	
P1002	K1MN12BA0059	CONNECTOR	1	
P1003	K1MN26BA0059	CONNECTOR	1	
Q1005-12	2SD2216J0L	TRANSISTOR	8	
Q1014,15	B1ADBE000001	TRANSISTOR	2	
Q1016,17	2SD2216J0L	TRANSISTOR	2	
R1003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1004	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1005-11	ERJ2RKD270	M.RESISTOR CH 1/16W 27	7	
R1013	ERJ2RKD270	M.RESISTOR CH 1/16W 27	1	
R1018	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	1	
R1020	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1024	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1069,70	ERJ2RKD270	M.RESISTOR CH 1/16W 27	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
TG1023	EYF6CU	TEST POINT	1	
■ E26	VEP22370A	GYRO C.B.A.	1	(RTL)
C901	F3G1A476A029	T.CAPACITOR CH 10V 47U	1	
C902,03	F3F0J226A055	T.CAPACITOR CH6.3V 22U	2	
C904-07	F1J0J106A014	T.CAPACITOR CH6.3V 10U	4	
C908,09	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	2	
C912	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C913	ECJ2VF1C105Z	C.CAPACITOR CH 16V 1U	1	
C916,17	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	2	
C920	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C921	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C922	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C923	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C924	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C925	F3G1C226A022	T.CAPACITOR CH 16V 22U	1	
IC903	C0ABCA000042	IC	1	
IC904	C0JBAS000251	IC	1	
IC905	C0ABAA000046	IC	1	
IC906	L2ES00000012	SENSOR U	1	
IC907	L2ES00000013	SENSOR U	1	
L901	G1C100K00019	COIL 10UH	1	
L903,04	G1C100K00019	COIL 10UH	2	
P901	K1MN10BA0134	CONNECTOR	1	
R901,02	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R903-06	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	4	
R907	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R910	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R911,12	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	2	
R913,14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R915-18	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R919-22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
■ E27	VEP03G96A	CAMERA TOP FPC C.B.A.	1	(RTL)
P1004	K1KB80AA0006	CONNECTOR (FEMALE)	1	
P1005	K1KA80AA0044	CONNECTOR (MALE)	1	
PB1	VJB03G96	TOP OP TO CAMERA FPC	1	
		MISCELLANEOUS		
	VMT1746	FPC CUSHION2	1	
	VMT1745	FPC CUSHION	1	
■ E28	VEP03G94A	CODEC P2 FPC C.B.A.	1	(RTL)
P1002	K1KY70A00001	CONNECTOR	1	
P1003	K1KA70AA0044	CONNECTOR (MALE)	1	
PB1	VJB03G94	P2 CARD TO CODEC FPC	1	
		MISCELLANEOUS		
	VMT1754	PB CUSHION 3	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	J0ZZZ0000053	FILTER	2	
■ E29	VEP001N2A	TOP CON C.B.A.	1	(RTL)
P500	K1MN24BA0059	CONNECTOR	1	
P501	K1MN22BA0059	CONNECTOR	1	
P502	K1KA02BA0047	CONNECTOR (MALE)	1	
P503	K1KB50BA0015	CONNECTOR (FEMALE)	1	
		MISCELLANEOUS		
	VMP8560	CONNECT PCB ANGLE	1	
	XQN2+B4FN	SCREW	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks